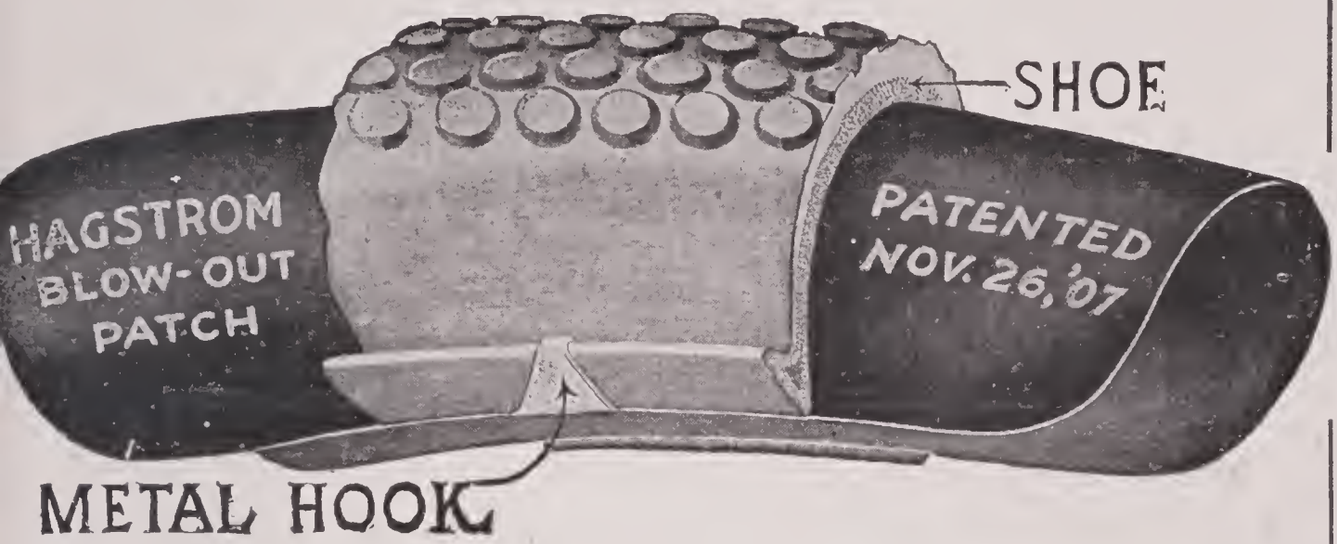
GV
1024
.P47
Vol. 4

THE LIBRARY OF CONGRESS

THE LIBRARY OF CONGRESS

Go ahead in safety



WHEN you carry HAGSTROM INSIDE TIRE SLEEVES in your tool box there is no need of carrying extra casings. The Hagstrom Sleeve fills the bill. They do not disfigure your car and, once inserted in the tires, will last thousands of miles; they positively can not creep and will build up the weak spots; saves vulcanizing, if applied in time, prevents rim cuts and blow outs; easy to insert and will save a large per cent of your tire expense. The Hagstrom Tire Sleeves are the greatest sensation of the season in the auto-tire accessory line, and is the only sleeve that has the endorsement of

our leading motorists and racing men.

Workmanship and material are carefully selected. The Hagstrom Sleeves are put up in boxes, making them convenient to carry. Ask your dealer. On sale everywhere.

HAGSTROM BROS. MANUFACTURING CO.

Works and Main Office

LINDSBORG, KANSAS

Do You Wonder that the Splitdorf Product Leads the World?

The Most Marvelous Non-Stop Automobile Run Ever Made—**10,000 miles without stopping its engine recently accomplished by a Maxwell car equipped with a**

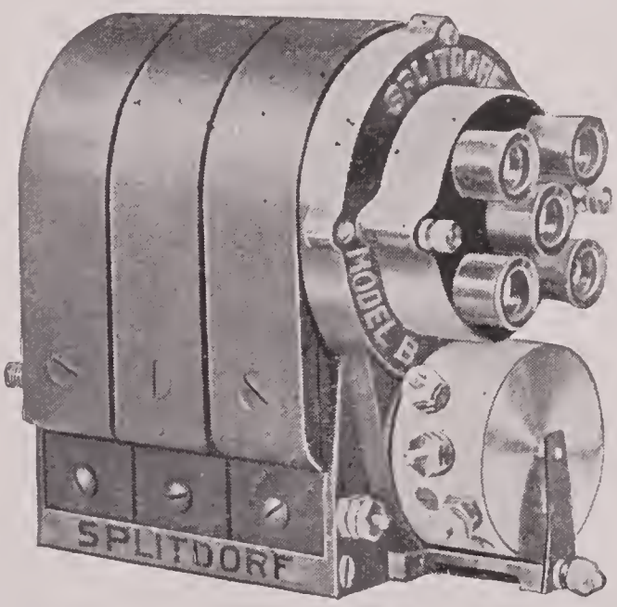
SPLITDORF MAGNETO

AND

COMMON SENSE PLUGS

Magneto and Plugs gave absolutely perfect ignition during entire run.

It is comparatively easy for any Magneto or Plug to show good results in a race of 400 or 500 miles, but a gruelling test of 25 days' continous and perfect work is a performance that proves to the utmost the efficiency and reliability of this incomparable Magneto and Plug.



The following is the last paragraph of a letter received by us from the Maxwell-Briscoe Motor Co. regarding this unparalleled feat:

"This test has conclusively proved to us that your Magneto is superior to anything we have ever used.

Yours very truly,
MAXWELL-BRISCOE MOTOR CO.
C. W. Kelsey."

Ask for Magneto catalog

CHICAGO: 319 Michigan Ave.
SAN FRANCISCO: 520 Van Ness Ave.
DETROIT: 886 Woodward Ave.
BOSTON: Motor Mart.

C. F. SPLITDORF

Walton Ave. and 138th St.
Branch, 1679 Broadway

NEW YORK

Autoline

The Perfect Lubricating Oil for All Types of Motor Cars and Motor Boats

The Oil that Saves the Motor

A supply of **Autoline** for cylinders, Greoil for transmissions and B Journal Compound for bearings on a long trip secures a maximum of efficiency and a minimum of worry.

Autoline

IF PROPERLY USED

Will Not Carbonize--Will Not Soot

Quality and uniformity guaranteed—Accept no substitute. There is nothing "Just as Good" for a motor car of any description. If your garage does not keep **Autoline**, write us and name make of your car.

Autoline

Manufactured by

Wm. C. Robinson & Son Co.

CHICAGO, ILL. TERRE HAUTE, IND. BALTIMORE, MD.
BOSTON, MASS. PHILADELPHIA, PA. PITTSBURG, PA.
CINCINNATI, O.

REFINERY AT CORAOPOLIS, PA.

First on Land, First on Sea,
First in the Hearts of All Motormen

Mosler Spit Fire PLUGS

Lead the World

USED BY THE LEADING MANUFACTURERS

MAGNETO TYPE OF ALL SIZES

Made to fit any engine, any thread.
Have heavy Genuine Iridium Platinum Points.
Can be had for the asking.

Energetic Ignition

BASE Protects Porcelain and Sparking Points
BASE acts as Condenser of Electricity
BASE Forms Compression Chamber

Greater Power

BASE Makes Plugs Spit Fire
BASE Economizes Current
BASE Facilitates Sparking

INSIST UPON THE TWO PATENTED SIDE CLEANING HOLES
—One is not enough!

We Protect our Registered Trade Mark and Patents. Dealers and Jobbers BEWARE!

Do not be deceived by any other "Fire" name.
There is only ONE GENUINE "Spit Fire" plug—that made by

A. R. MOSLER & CO.
Originators of the "Spit Fire" principle

A TRIUMPH FOR THE SPIT FIRE

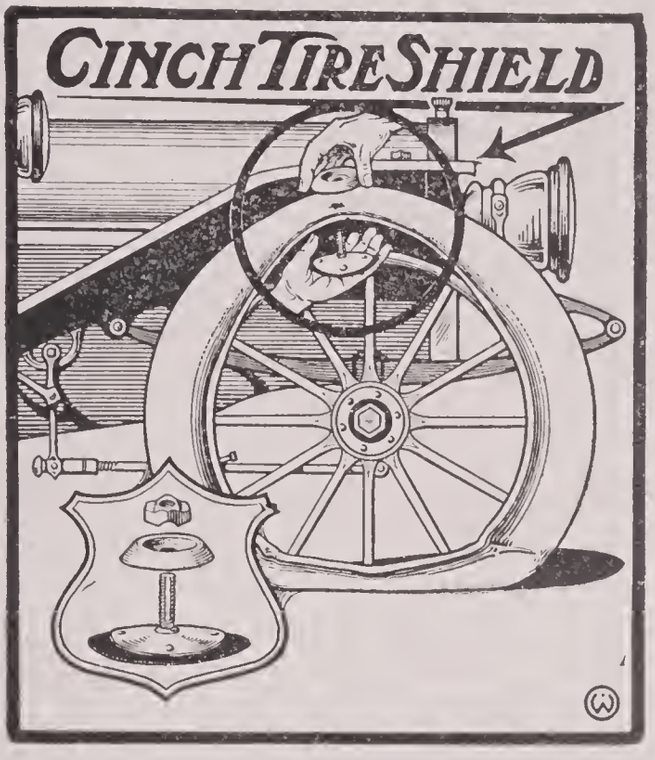
The ONLY Plugs in the WORLD that ACTUALLY Spit Fire

INSIST ON THE GENUINE, with Name on Porcelain and Base

A. R. MOSLER & CO 163 W 29th Street, New York

Don't Walk Home Don't Run on Flat Tires

Put on a **CINCH**



Patent Allowed

ARE YOU PREPARED FOR A BLOW-OUT?

IF NOT

GET A CINCH TIRE SHIELD

Made to fit any sized tire

Made either of LEATHER REINFORCED with STEEL or of STEEL COVERED WITH CANVAS

WHY CARRY EXTRA CASES?

Put a few Cinches in the tool box and repair any and all blow-outs

ASK FOR OUR CATALOGUE

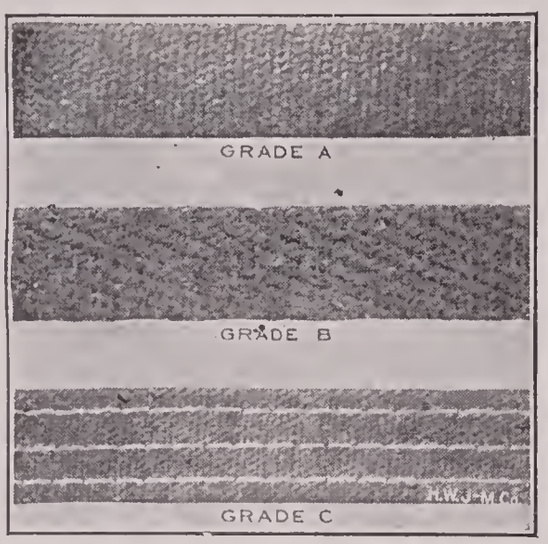
OF

AUTO NOVELTIES AND SUPPLIES INCLUDING THE MARVELOUS TARNISH PREVENTATIVE

LAWRENCE & WELCH

STERLING, ILLINOIS

For sale by all Reliable Dealers



MADE IN THREE GRADES—
Any Length or Thickness

Non-Burn Brake Lining Locked Wheels Instantly

Out of the five most largely used brake band linings recently put to an exhaustive test by Mr. J. D. Maxwell, of the Maxwell Briscoe Motor Company.

Non-Burn was the only one which locked wheels of car INSTANTLY. The lining which came nearest to this locked wheels in 12 feet.

A difference of only one foot in the stopping distance often averts a serious accident!

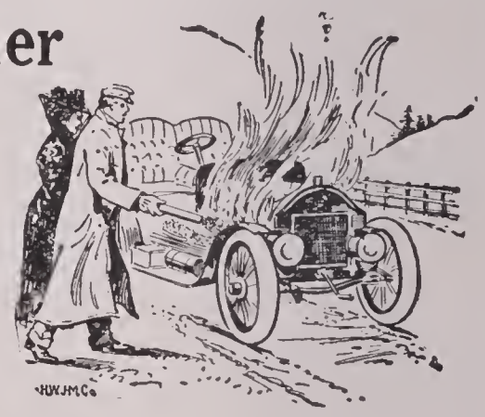
NON-BURN BRAKE LINING is made of pure long-fibred Asbestos with brass wires inserted. Heat from friction or oil and water do not affect it. Wears 40,000 to 50,000 miles.

Write nearest Branch for Sample and Booklet.

Manville Fire Extinguisher

is absolutely warranted to put out any fire, whether arising from gasoline, benzine, calcium carbide, or any other cause, if thrown at the base of flames when fire first starts. It is also warranted not to injure paint or the upholstering, and not to freeze, cake in the tube, corrode or deteriorate with age.

Is always ready, always sure. **Over a Half Million in Use.**



Write nearest Branch for Booklet.

Mobilene Packing Won't Blow Out

MOBILENE PACKING does not burn, char, harden and blow out like rubber, cloth and other so-called gas-engine packings. It is made of an indestructible mineral — *asbestos* — which heat does not affect.

MOBILENE also has exceptional strength because fine brass wires are intertwisted in each strand. It is pliable, compressible and easily cut. Is graphited one side and all ready to apply.

See that it is used on your auto and avoid vexatious delays. **Write nearest Branch for Sample and Booklet.**

H. W. JOHNS-MANVILLE CO.

Baltimore	Cleveland	London	New Orleans	San Francisco
Boston	Dallas	Los Angeles	New York	Seattle
Buffalo	Detroit	Milwaukee	Philadelphia	St. Louis
Chicago	Kansas City	Minneapolis	Pittsburg	

Waterhouse

Carburator

No re-hashing of old methods, fundamentally new

IT HAS ONLY ONE ADJUSTMENT, THE NEEDLE VALVE, ONCE SET REMAINS FIXED FOR ALL SPEEDS

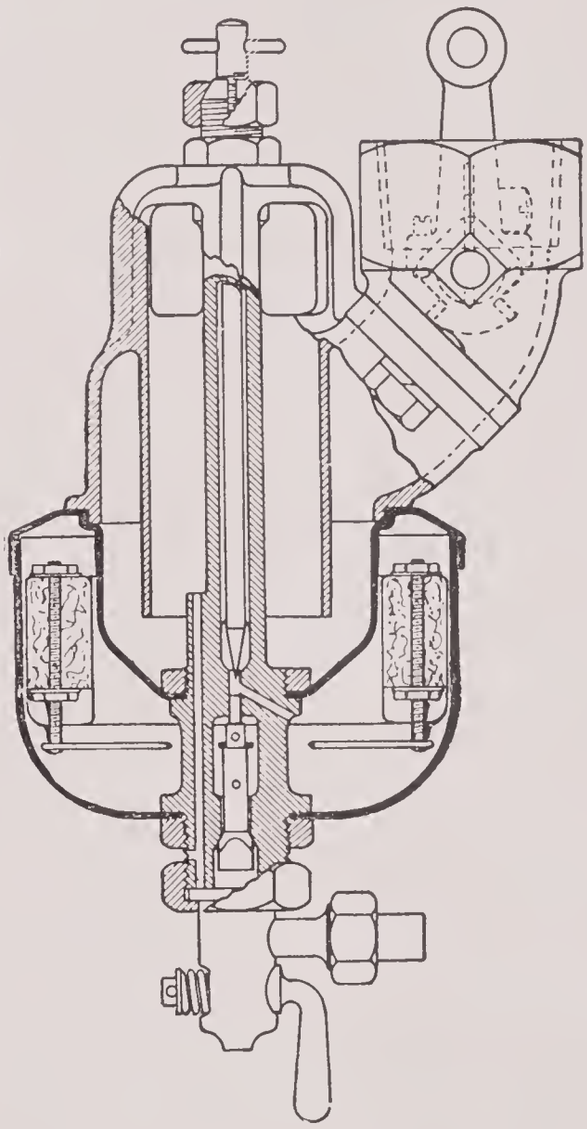
No Air Auxiliaries, no Springs and no Spray Nozzle, can't Flood.

Always primed for starting, won't choke up. Responds to the throttle instantly.

It's light in weight and very tiny.

Extremely powerful and gives absolutely no trouble.

Its price is low.



ONE-HALF ACTUAL MEASUREMENTS OF ONE INCH SIZE

Makers of the celebrated
Bemus Timers

Monitor Mfg. Co.

28 PELHAM COURT
Boston, Mass.

Manufacturers of the Famous
Monitor Distributors

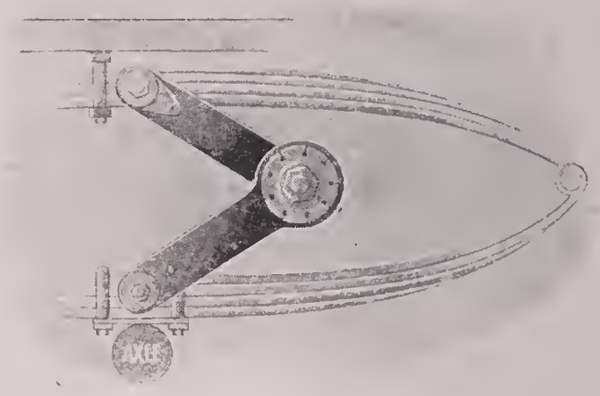
STOP *THE JAR AND SHOCK*

AND THE EVER WORKING INJURY TO YOUR CAR BY THE USE OF THE

WESTEN SHOCK ABSORBER

THE ONLY SHOCK ABSORBER MADE THAT WILL AUTOMATICALLY ADJUST THEMSELVES TO ANY LOAD OR ROAD CONDITIONS.

This absorber automatically adjusts itself to the natural position regardless of the load carried by the vehicle, and at the same time brakes the upward as well as the downward motion of the springs.



In the ordinary shock absorber the absorbing qualities are lost by the addition of extra weight, or if the car meets with an unordinary obstruction. While the vibration of the engine is in no way checked and is the cause of much wear and tear. Westen Shock Absorbers catch all vibrations at all times no matter how small or how great. The automatic adjustment within itself make them superior. After once attached to your car assurance of safety and less cost for upkeep is guaranteed, and the unpleasant sound of the nerve racking rattle of loose parts is eliminated.

You should realize at once the damage done by oscillation and equip your car with Westen Shock Absorbers. You will then be prepared to meet unexpected jolts and unseen depressions in the road and add, at the same time, comfort to the passengers of the car.

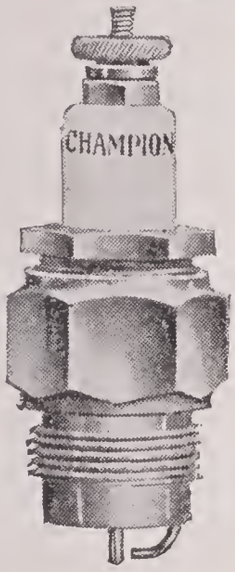
There are two friction planes which make the absorber capable of offering different degrees of resistance to the action of the vehicle springs under varying conditions.

WESTEN MANUFACTURING CO.

290 HALSEY STREET

Newark, New Jersey

The Right Spark Plug is an important adjunct to any Gas Engine



In the construction of the Champion Spark Plug the utmost care is given to every detail, thus assuring the best results.

The porcelain is of the very highest quality procurable.

The centre wire is firmly cemented and baked in, thus doing away with any possible leak of compression through that source.

The shell and bushing are cut from solid stock and so designed that when assembled porcelain does not actually come in contact with either at any point, thus preventing any chance of breakage from contraction or expansion of metal.

The workmanship on parts is so good and so accurate that no matter how many times the plug is taken apart and re-assembled the porcelain is always perfectly centered.

The electrodes or points are of nickel alloy; will not oxidize; are imperforable to spark of almost any intensity; are especially adapted to use with magneto, under which use the points will not burn off as they do on so many other plugs.

The combustion chamber at lower extremity of porcelain keeps the points free from soot, and practically eliminates any necessity for cleaning.

We particularly recommend the use of Champion Plugs under severest conditions, such as very high compression, excessive oil in cylinders, with magneto, etc.

Genuine Champion Spark Plugs are manufactured only by

The Champion Company

36 Whittier Street, Boston, Mass.

This is a cash

6 60

proposition $10.00 only

Compare these sizes with other 6 volt
60 ampere Batteries

$8 \times 6\frac{1}{4} \times 9\frac{1}{8}$

Guaranteed for one year or money refunded. Made in sizes from 40 amperes up

---

MICHIGAN STORAGE BATTERY CO.

67 East Atwater Street, Detroit, Mich.

YOUR CAR CANNOT RUN EASIEST

Nor Last Longest Without the Best Lubricant

The ONE Automobile Oil and the ONE Automobile Grease you can always depend upon—that gives PERFECT SATISFACTION and reduces cost of lubrication and repair bills to a minimum is

SPEARE'S

AUTO OIL AND GREASE

THEY SAVE WEAR
INCREASE POWER and
EVERY DROP LUBRICATES

WHY?

Because they are manufactured by a firm with fifty-five years' experience in the lubricating oil business.

Speare's Body Soap
Speare's Metal Polish
Speare's Waste

are also the most economical you can buy

SPEARE'S GOODS are sold everywhere; if not, send dealer's name and write us direct.

DEALERS—Send for Speare's latest proposition.

THE ALDEN SPEARE'S SONS CO.

Established 1851

253 Broadway
New York

369 Atlantic Avenue
BOSTON, MASSACHUSETTS

21 River Street
Chicago

T. S. D. Recording Company

(Metropolitan Building)

NO. 1 MADISON AVENUE, NEW YORK

Manufacturers of best modern devices and instruments for accurately measuring **TIME, SPEED, DISTANCE,** including stops or waiting time, and permanently registering same.

Machines suitable for all kinds of vehicles—horse drawn or motor. **Especially adapted for Automobiles.**

T. S. D. Combination Recorder, containing within a highly polished brass case, securely locked, with plate glass front, a Speedometer, Odometer, Clock (eight day, full-jewelled marine movement), and recording tape sufficient for one week, on which is correctly and permanently recorded time employed, speed attained, distance travelled and stops made day or night. **Absolutely eliminates "Joy Rides."**

T. S. D. Commercial Recorder (for commercial vehicles), comprising clock and record tape, locked within a solid metal case, and giving a clear, permanent record of exact movement of vehicles, thus **preventing or minimizing speeding or loitering.**

T. S. D. Combination Recorder

Half Size

T. S. D. Speedometer and Odometer combined

T. S. D. Speedometer—singly

T. S. D. Odometer

T. S. D. Clocks

T. S. D. Taximeter or **Taxirecord** for taxicabs and vehicles for hire

Exclusive Territory To Responsible Representatives

The construction of all T. S. D. Machines embodies features which mark a distinct advance in the State of the Art, and will meet all requirements of practicability, reliability, accuracy and durability, which instruments for the service intended should possess.

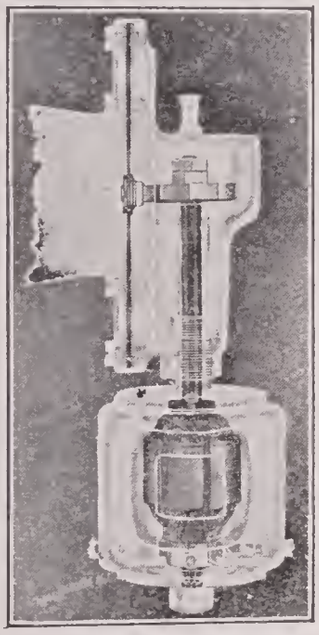
THE

KLAXON

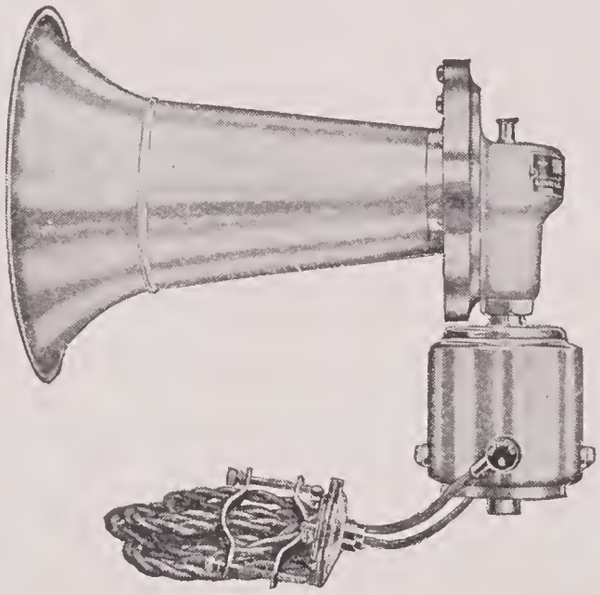
Trade Mark Reg. Patented Mar. 31-08, Jan. 19-09 (2), Feb. 2-09, May 25-09 (3)

"THE X-RAY OF SOUND"

THE "Klaxon" is a Noise machine. It is run by an electric motor and is built to run for years :: :: :: It operates from a 6 or 8-volt storage battery or 8 dry cells. It is not a horn--reed or electric---though it looks somewhat like one :: :: ::



Sectional view of KLAXON showing relative position of motor shaft, toothed wheel and vibrating diaphragm.



Type L—Long Projector

Lovell-McConnell Mfg. Co., *Manufacturers*

365-367 Market Street, NEWARK, N. J.

The Klaxon Company

Sole Distributors for U. S. A.

1 Madison Avenue, NEW YORK

TOURISTS en route between
CHICAGO and NEW YORK

Can secure UNIFORM LUBRICATION and FREEDOM from CARBON TROUBLES, by calling for

ANTI-CARBON AUTO OIL

Made By

THE KEYSTONE REFINING CO.

COLUMBUS, OHIO

at any of the following FIRST-CLASS GARAGES along the route:

CHICAGO, ILL.
The Motor Car Supply Co., 1451-53 Michigan Ave.

HAMMOND, IND.
Hammond Garage Company

CROWN POINT, IND.
GARY, IND.
C. M. Baker

VALPARAISO, IND.
A. L. Zimmerman, 251 W. Main St.

LAPORTE, IND.
Auto Maintenance Co., 808 Monroe

LOGANSPORT, IND.
A. E. Dunn, Main Street

PERU, IND.—Adams & Sampsel

KOKOMO, IND.
J. E. Palethorpe, 20 East Sycamore

TIPTON, IND.
Tipton Garage and Machine Works

WAUSEON, OHIO
F. R. Harper

TOLEDO, OHIO
Atwood Garage, 2015 Monroe Street

FREMONT, OHIO
Fremont Auto & Repair Co., 207-09 Garrison Street

TIFFIN, OHIO
H. P. Klaiss, 123 East Market Street

BELLEVUE, OHIO—E. C. Reitz

OBERLIN, OHIO—A. P. Cook

ELYRIA, OHIO—The Auto Inn

LORAIN, OHIO
F. S. Rathwell, 425-27 Broadway

WILLOUGHBY, OHIO—Star Garage

ASHTABULA, OHIO
C. L. Scrivens Motor Co., 13 Spring Street

BUFFALO, N. Y.—Chas. E. Miller, 824 Main St.

NIAGARA FALLS, N. Y.
Niagara Falls Auto & Transit Co., 103 Main St.

BATAVIA, N. Y.—Hilte & Kennedy, 24 Main St.

ROCHESTER, N. Y.
Rochester Auto Supply Co., 375 Main Street

AUBURN, IND.
Auburn Automobile Co., 54-60 Water Street

SYRACUSE, N. Y.
Amos & Pierce Automobile Co.

ALBANY, N. Y.
Albany Garage Co., 28-30 Howard Street

NEW YORK—Chas. E. Miller, 97 Reid Street

By using the same grade of oil from start to finish you avoid the necessity of changing feed, and we are positive you can not start with a better oil, or one that will cause you LESS CARBON TROUBLE than our celebrated

ANTI-CARBON AUTO OIL

We will appreciate it if consumers will report to us any dealers who try to substitute an inferior oil for our ANTI-CARBON.

THE KEYSTONE REFINING COMPANY
COLUMBUS, OHIO

The same consistency for all seasons of the year. Not affected by severe conditions of heat and cold.

KEYSTONE GREASE

ESTABLISHED 1884

Holds the record for lowest friction and greatest test for endurance in the great plant of the William Cramp & Sons Ship and Engine Building Company, Philadelphia.

ORDER IT NEXT TIME

Has an established reputation in the power plant field for superiority and greatness. Ask any engineer anywhere.

Is not soluble in water like cheap grease.

ORDER IT NEXT TIME

The World's Greatest Lubricant

No. 1 Density (solid) for use in all grease cups—on axle bearings or wherever the use of a solid lubricant might be required.

No. 3 Density (semi-solid) for transmission, differential and timing gear cases.

KEYSTONE

Lubricating Company

Philadelphia

CHICAGO
907 Tacoma Bldg.
NEW YORK
1777 Broadway
BOSTON
Oliver Bldg.
NEW ORLEANS
612 Chartres Bldg.

Dealers and Jobbers write for our Special Proposition.

Gus Balzer Manufacturer and Manufacturers Representative

Representing

MONOGRAM CREST AND SIGN CO.

We Handle Following Goods:

Sawed and Etched Name Plates. Radiator Cap Eagles and Ornaments. Limousine Bouquet Holders.

We Make a Specialty of all Ornaments that are used on an Automobile

1777 Broadway New York

The so called Tire Problem is no Problem at all to a raft of

Goodrich Tire

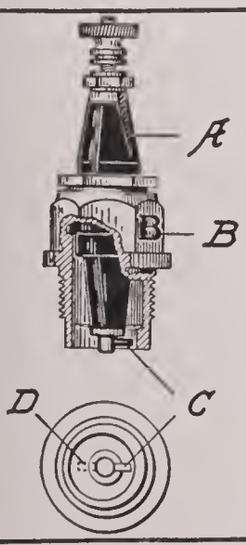
USERS

They get inexpensive pleasurable milage—and a good deal of it

The B. F. Goodrich Company

Akron, Ohio

Branches in all large Cities



The "Excentric" Mica Plug

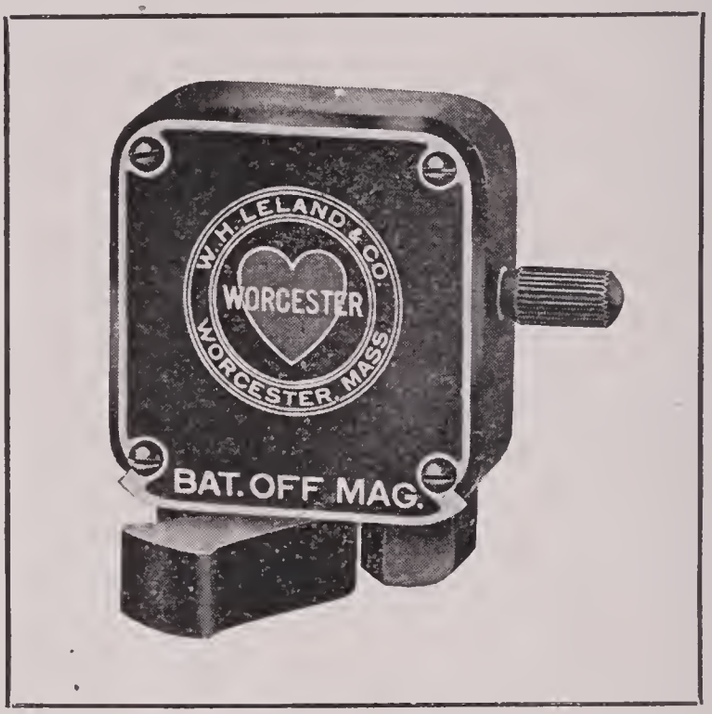
Try it and convince yourself of its superiority. Guaranteed for one year

Mica Core Manufacturing Co.

Makers of Spark Plugs, Mica Cores, Timers and Distributers

446 E. 166th STREET NEW YORK CITY

WORCESTER IGNITION SPECIALTIES



WORCESTER COMBINATION ROTARY SWITCH

(Controller Type)

Operated by Hand or Foot

WORCESTER AUTOMOBILE AND MARINE COILS

SEND FOR CATALOG

W. H. LELAND & COMPANY

WORCESTER :: MASSACHUSETTS

PHOTO-AUTO MAPS

Photographs of every turn, together with a

Topographical Outline of Road

Showing Railroad Crossings, Bridges, School Houses and All Landmarks, with Accurate Distances Between

BUFFALO TO NEW YORK

NEW YORK TO BUFFALO

Rand McNally & Company

PUBLISHERS

166 and 168 Adams Street
CHICAGO

142 Fifth Avenue
NEW YORK

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Chicago to New York
New York to Chicago

Chicago to South Bend, Ind.
South Bend to Chicago

Chicago to Kokomo, Ind.
Kokomo to Chicago

Chicago to Toledo, O.
Toledo to Chicago

Chicago to Detroit, Mich.
Detroit to Chicago

Chicago to Cleveland
Cleveland to Chicago

Chicago to Erie, Pa.
Erie to Chicago

Chicago to Buffalo, N. Y.
Buffalo to Chicago

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New York to Detroit

Detroit to Toledo
Toledo to Detroit

Detroit to Cleveland, O.
Cleveland to Detroit

Detroit to Buffalo, N. Y.
Buffalo to Detroit

Detroit to Rochester, N. Y.
Rochester to Detroit

Erie to Detroit
Detroit to Erie

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Toledo to New York
New York to Toledo

Toledo to Cleveland
Cleveland to Toledo

Toledo to Erie, Pa.
Erie to Toledo

Toledo to Buffalo, N. Y.
Buffalo to Toledo

Detroit to Rochester, N. Y.
Rochester to Toledo

Toledo to Detroit, Mich.
Detroit to Toledo

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Cleveland to New York
New York to Cleveland

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Buffalo to Cleveland

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Rochester to Cleveland

Cleveland to Syracuse, N. Y.
Syracuse to Cleveland

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New York to Buffalo

Buffalo to Cleveland
Cleveland to Buffalo

Buffalo to Erie
Erie to Buffalo

Buffalo to Rochester, N. Y.
Rochester to Buffalo

Buffalo to Syracuse, N. Y.
Syracuse to Buffalo

Buffalo to Utica
Utica to Buffalo

Buffalo to Albany
Albany to Buffalo

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Rochester to Syracuse, N. Y.
Syracuse to Rochester

Rochester to Albany, N. Y.
Albany to Rochester

Rochester to New York
New York to Rochester

Rochester to Utica, N. Y.
Utica to Rochester

Syracuse to Utica, N. Y.
Utica to Syracuse

Syracuse to Albany, N. Y.
Albany to Syracuse

Utica to Albany, N. Y.
Albany to Utica

Albany to Saratoga Springs
Saratoga Springs to Albany

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New York to Chicago
Chicago to New York

New York to Buffalo, N. Y.
Buffalo to New York

New York to Albany, N. Y.
Albany to New York

New York to Saratoga Springs
Saratoga Springs to New York

New York to Utica, N. Y.
Utica to New York

New York to Syracuse, N. Y.
Syracuse to New York

New York to Rochester, N. Y.
Rochester to New York

New York to Cleveland, O.
Cleveland to New York

New York to Detroit, Mich.
Detroit to New York

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The first column of figures gives the numbers of the photos in the town or the nearest photo to it. The second column gives the number of the map on which the town is located.

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Ashtabula	Ohio	137–651	15
Atlanta	Ind.	37A–58A	203
Auburn	N. Y.	193–708	25
Batavia	"	165–677	21
Bellview	Ohio	113–618	11
Bergen	N. Y.	172–682	21
Blue Store	"	246–758	32
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Canastota	"	211–721	27
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Chicago	Ill.	1–499	1
Chittenango	N. Y.	209–718	26
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Dobbs Ferry	N. Y.	276–786	36
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To the Motorist Who is Down on His "Tire Luck"

You don't hear the man who uses Morgan & Wright tires saying much about his "tire luck," good or bad.

After he has used a pair or two, he gets out of the habit of ascribing the completion of a trip or a tour without tire trouble to good fortune. He lays it to ***"Good Tires"***—nothing else. He knows that—take tires made as Morgan & Wright tires are, out of the highest grade of materials with a painstaking care in regard to the minutest details of construction, and give them proper care—tire service ceases to be a matter of chance.

He gets a confidence in his tire equipment that adds much to the enjoyment of his car, and a freedom from repair bills that is a big help to his bank account.

There is no truer saying in motordom than that—

MORGAN & WRIGHT TIRES

ARE GOOD TIRES

Dealers everywhere sell them at the same price you are asked to pay for other brands.

Morgan & Wright, Detroit

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Fayetteville	N. Y.	207–717	26
Fishkill Village	"	256–764	34
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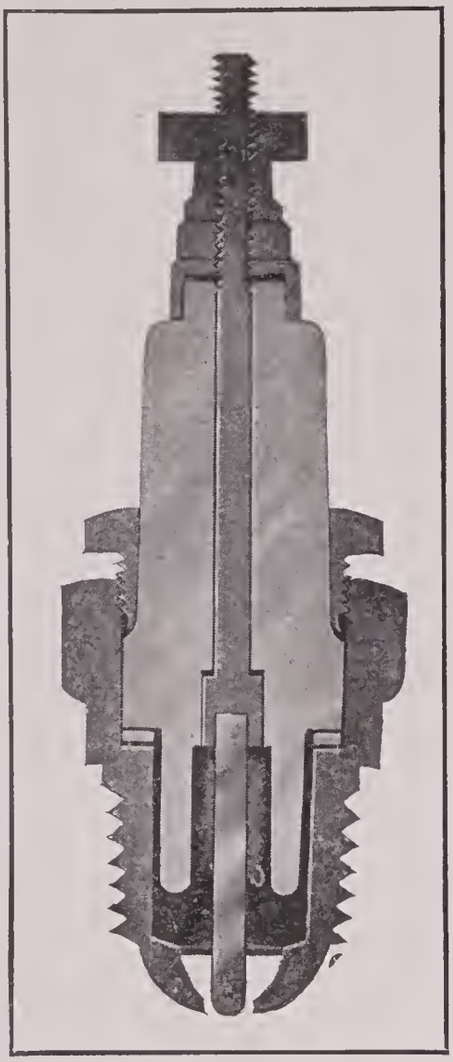
Simplicity, Strength



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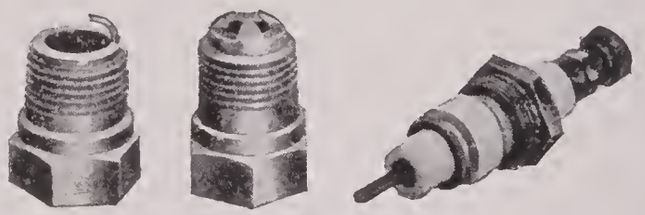

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Table of Distances Between Points

CHICAGO TO SOUTH BEND

FROM — TO	Chicago	Hammond	Highlands	Hobart	Wheeler	Valparaiso	Westville	La Porte	New Carlisle	South Bend
Chicago	—	19.6	26.9	39.0	44.8	53.4	64.7	76.5	91.0	106.2
Hammond	19.6	—	7.3	19.4	25.2	33.8	45.1	56.9	71.4	86.6
Highlands	26.9	7.3	—	12.1	17.9	26.5	37.8	49.6	64.1	79.3
Hobart	39.0	19.4	12.1	—	5.8	14.4	25.7	37.5	52.0	67.2
Wheeler	44.8	25.2	17.9	5.8	—	8.6	19.9	31.7	46.2	61.4
Valparaiso	53.4	33.8	26.5	14.4	8.6	—	11.3	23.1	37.6	52.8
Westville	64.7	45.1	37.8	25.7	19.9	11.3	—	11.8	26.3	41.5
La Porte	76.5	56.9	49.6	37.5	31.7	23.1	11.8	—	14.5	29.7
New Carlisle	91.0	71.4	64.1	52.0	46.2	37.6	26.3	14.5	—	15.2
South Bend	106.2	86.6	79.3	67.2	61.4	52.8	41.5	29.7	15.2	—

TABLE OF DISTANCES

	South Bend	Mishawaka	Osceola	Goshen	Benton	Ligonier	Wawaka	Kendallville	Waterloo	Butler	Edgerton	Bryan	Stryker	Archbold	Wauseon	Delta	Swanton	Toledo
South Bend		4.5	10.2	24.8	32.1	42.8	49.1	61.8	76.8	84.5	91.7	103.4	112.1	119.3	129.7	140.6	146.0	173.4
Mishawaka	4.5	P	5.7	20.3	27.6	38.3	44.6	57.3	72.3	80.0	87.2	98.9	107.6	114.8	125.2	136.1	141.5	168.9
Osceola	10.2	5.7	H	14.6	21.9	32.6	38.9	51.6	66.6	74.3	81.5	93.2	101.9	109.1	119.5	130.4	135.8	163.2
Goshen	24.8	20.3	14.6	O	7.3	18.0	24.3	37.0	52.0	59.7	66.9	78.6	87.3	94.5	104.9	115.8	121.2	148.6
Benton	32.1	27.6	21.9	7.3	T	10.7	17.0	29.7	44.7	52.4	59.6	71.3	80.0	87.2	97.6	108.5	113.9	141.3
Ligonier	42.8	38.3	32.6	18.0	10.7	O	6.3	19.0	34.0	41.7	48.9	60.6	69.3	76.5	86.9	97.8	103.2	130.6
Wawaka	49.1	44.6	38.9	24.3	17.0	6.3		12.7	27.7	35.4	42.6	54.3	63.0	70.2	80.6	91.5	96.9	124.3
Kendallville	61.8	57.3	51.6	37.0	29.7	19.0	12.7	A	15.0	22.7	29.9	41.6	50.3	57.5	67.9	78.8	84.2	111.6
Waterloo	76.8	72.3	66.6	52.0	44.7	34.0	27.7	15.0	U	7.7	14.9	26.6	35.3	42.5	52.9	63.8	69.2	96.6
Butler	84.5	80.0	74.3	59.7	52.4	41.7	35.4	22.7	7.7	T	7.2	18.9	27.6	34.8	45.2	56.1	61.5	88.9
Edgerton	91.7	87.2	81.5	66.9	59.6	48.9	42.6	29.9	14.9	7.2	O	11.7	20.4	27.6	38.0	48.9	54.3	81.7
Bryan	103.4	98.9	93.2	78.6	71.3	60.6	54.3	41.6	26.6	18.9	11.7		8.7	15.9	26.3	37.2	42.6	70.0
Stryker	112.1	107.6	101.9	87.3	80.0	69.3	63.0	50.3	35.3	27.6	20.4	8.7	M	7.2	17.6	28.5	33.9	61.3
Archbold	119.3	114.8	109.1	94.5	87.2	76.5	70.2	57.5	42.5	34.8	27.6	15.9	7.2	A	10.4	21.3	26.7	54.1
Wauseon	129.7	125.2	119.5	104.9	97.6	86.9	80.6	67.9	52.9	45.2	38.0	26.3	17.6	10.4	P	10.9	16.3	43.7
Delta	140.6	136.1	130.4	115.8	108.5	97.8	91.5	78.8	63.8	56.1	48.9	37.2	28.5	21.3	10.9	S	5.4	32.8
Swanton	146.0	141.5	135.8	121.2	113.9	103.2	96.9	84.2	69.2	61.5	54.3	42.6	33.9	26.7	16.3	5.4		27.4
Toledo	173.4	168.9	163.2	148.6	141.3	130.6	124.3	111.6	96.6	88.9	81.7	70.0	61.3	54.1	43.7	32.8	27.4	

TABLE OF DISTANCES

	Toledo	Genoa	Woodville	Fremont	Clyde	Bellview	Monroeville	Norwalk	Townsend	Wakeman	Kipton	Oberlin	Elyria	Ridgeville	Dover	Cleveland
Toledo		14.1	19.4	33.3	42.3	49.9	58.4	63.5	70.2	74.7	82.5	88.4	97.8	102.6	109.7	123.7
Genoa	14.1	**P**	5.3	19.2	28.2	35.8	44.3	49.4	56.1	60.6	68.4	74.3	83.7	88.5	95.6	109.6
Woodville	19.4	5.3	**H**	13.9	22.9	30.5	39.0	44.1	50.8	55.3	63.1	69.0	78.4	83.2	90.3	104.3
Fremont	33.3	19.2	13.9	**O**	9.0	16.6	25.1	30.2	36.9	41.4	49.2	55.1	64.5	69.3	76.4	90.4
Clyde	42.3	28.2	22.9	9.0	**T**	7.6	16.1	21.2	27.9	32.4	40.2	46.1	55.5	60.3	67.4	81.4
Bellview	49.9	35.8	30.5	16.6	7.6	**O**	8.5	13.6	20.3	24.8	32.6	38.5	47.9	52.7	59.8	73.8
Monroeville	58.4	44.3	39.0	25.1	16.1	8.5		5.1	11.8	16.3	24.1	30.0	39.4	44.2	51.3	65.3
Norwalk	63.5	49.4	44.1	30.2	21.2	13.6	5.1	**A**	6.7	11.2	19.0	24.9	34.3	39.1	46.2	60.2
Townsend	70.2	56.1	50.8	36.9	27.9	20.3	11.8	6.7	**U**	4.5	12.3	18.2	27.6	32.4	39.5	53.5
Wakeman	74.7	60.6	55.3	41.4	32.4	24.8	16.3	11.2	4.5	**T**	7.8	13.7	23.1	27.9	35.0	49.0
Kipton	82.5	68.4	63.1	49.2	40.2	32.6	24.1	19.0	12.3	7.8	**O**	5.9	15.3	20.1	27.2	41.2
Oberlin	88.4	74.3	69.0	55.1	46.1	38.5	30.0	24.9	18.2	13.7	5.9		9.4	14.2	21.3	35.0
Elyria	97.8	83.7	78.4	64.5	55.5	47.9	39.4	34.3	27.6	23.1	15.3	9.4	**M**	4.8	11.9	25.9
Ridgeville	102.6	88.5	83.2	69.3	60.3	52.7	44.2	39.1	32.4	27.9	20.1	14.2	4.8	**A**	7.1	21.1
Dover	109.7	95.6	90.3	76.4	67.4	59.8	51.3	46.2	39.5	35.0	27.2	21.3	11.9	7.1	**P**	14.0
Cleveland	123.7	109.6	104.3	90.4	81.4	73.8	65.3	60.2	53.5	49.0	41.2	35.0	25.9	21.1	14.0	**S**

TABLE OF DISTANCES

	Cleveland	Willoughby	Mentor	Painesville	Geneva	Ashtabula	Conneaut	E. Springfield	Girard	Fairview	Erie	Buffalo
Cleveland		18.8	23.5	29.7	47.5	58.0	71.8	80.4	85.9	90.2	102.1	197.2
Willoughby	18.8		4.7	10.9	28.7	39.2	53.0	61.6	67.1	71.4	83.3	178.4
Mentor	23.5	4.7		6.2	24.0	34.5	48.3	56.9	62.4	66.7	78.6	173.7
Painesville	29.7	10.9	6.2		17.8	28.3	42.1	50.7	56.2	60.5	72.4	167.5
Geneva	47.5	28.7	24.0	17.8		10.5	24.3	32.9	38.4	42.7	54.6	149.7
Ashtabula	58.0	39.2	34.5	28.3	10.5		13.8	22.4	27.9	32.2	44.1	139.2
Conneaut	71.8	53.0	48.3	42.1	24.3	13.8		8.6	14.1	18.4	30.3	125.4
E. Springfield	80.4	61.6	56.9	50.7	32.9	22.4	8.6		5.5	9.8	21.7	116.8
Girard	85.9	67.1	62.4	56.2	38.4	27.9	14.1	5.5		4.3	16.2	111.3
Fairview	90.2	71.4	66.7	60.5	42.7	32.2	18.4	9.8	4.3		11.9	107.0
Erie	102.1	83.3	78.6	72.4	54.6	44.1	30.3	21.7	16.2	11.9		95.1
Buffalo	197.2	178.4	173.7	167.5	149.7	139.2	125.4	116.8	111.3	107.0	95.1	

TABLE OF DISTANCES

	Cleveland	Erie	Wesleyville	Harbour Creek	North East	Ripley	Westfield	Portland	Brocton	Fredonia	Sheridan	Silver Creek	Irving	Buffalo
Cleveland		102.1	106.2	110.0	117.2	126.1	133.1	140.3	141.9	148.8	154.7	160.9	164.3	197.2
Erie	102.1		4.1	7.9	15.1	24.0	31.0	38.2	39.8	46.7	52.6	58.8	62.2	95.1
Wesleyville	106.2	4.1		3.8	11.0	19.9	26.9	34.1	35.7	42.6	48.5	54.7	58.1	91.0
Harbour Creek	110.0	7.9	3.8		7.2	16.1	23.1	30.3	31.9	38.8	44.7	50.9	54.3	87.2
North East	117.2	15.1	11.0	7.2		8.9	15.9	23.1	24.7	31.6	37.5	43.7	47.1	80.0
Ripley	126.1	24.0	19.9	16.1	8.9		7.0	14.2	15.8	22.7	28.6	34.8	38.2	71.1
Westfield	133.1	31.0	26.9	23.1	15.9	7.0		7.2	8.8	15.7	21.6	27.8	31.2	64.1
Portland	140.3	38.2	34.1	30.3	23.1	14.2	7.2		1.6	8.5	14.4	20.6	24.0	56.9
Brocton	141.9	39.8	35.7	31.9	24.7	15.8	8.8	1.6		6.9	12.8	19.0	22.4	55.3
Fredonia	148.8	46.7	42.6	38.8	31.6	22.7	15.7	8.5	6.9		5.9	12.1	15.5	48.4
Sheridan	154.7	52.6	48.5	44.7	37.5	28.6	21.6	14.4	12.8	5.9		6.2	9.6	42.5
Silver Creek	160.9	58.8	54.7	50.9	43.7	34.8	27.8	20.6	19.0	12.1	6.2		3.4	36.3
Irving	164.3	62.2	58.1	54.3	47.1	38.2	31.2	24.0	22.4	15.5	9.6	3.4		32.9
Buffalo	197.2	95.1	91.0	87.2	80.0	71.1	64.1	56.9	55.3	48.4	42.5	36.3	32.9	

TABLE OF DISTANCES

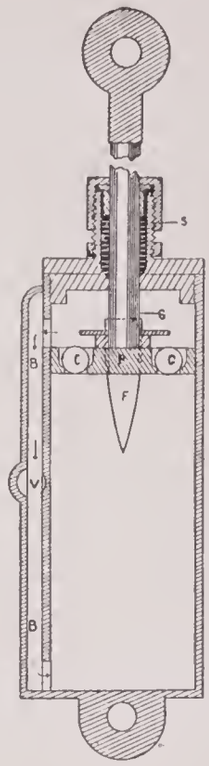
	Buffalo	Batavia	Bergen	Churchville	Rochester	Pittsford	Macedon	Palmyra	Phelps	Auburn	Elbridge	Camillius	Syracuse	Albany
Buffalo		39.6	55.6	59.0	73.4	80.6	92.0	97.2	111.7	138.9	149.6	156.6	165.5	318.0
Batavia	39.6		16.0	19.4	33.8	41.0	52.4	57.6	72.1	99.3	110.0	117.0	125.9	278.4
Bergen	55.6	16.0		3.4	17.8	25.0	36.4	41.6	56.1	83.3	94.0	101.0	109.9	262.4
Churchville	59.0	19.4	3.4		14.4	21.6	33.0	38.2	52.7	79.9	90.6	97.6	106.5	259.0
Rochester	73.4	33.8	17.8	14.4		7.2	18.6	23.8	38.3	65.5	76.2	83.2	92.1	244.6
Pittsford	80.6	41.0	25.0	21.6	7.2		11.4	16.6	31.1	58.3	69.0	76.0	84.9	237.4
Macedon	92.0	52.4	36.4	33.0	18.6	11.4		5.2	19.7	46.9	57.6	64.6	73.5	226.0
Palmyra	97.2	57.6	41.6	38.2	23.8	16.6	5.2		14.5	41.7	52.4	59.4	68.3	220.8
Phelps	111.7	72.1	56.1	52.7	38.3	31.1	19.7	14.5		27.2	37.9	44.9	53.8	206.3
Auburn	138.9	99.3	83.3	79.9	65.5	58.3	46.9	41.7	27.2		10.7	17.7	26.6	179.1
Elbridge	149.6	110.0	94.0	90.6	76.2	69.0	57.6	52.4	37.9	10.7		7.0	15.9	168.4
Camillius	156.6	117.0	101.0	97.6	83.2	76.0	64.6	59.4	44.9	17.7	7.0		8.9	161.4
Syracuse	165.5	125.9	109.9	106.5	92.1	84.9	73.5	68.3	53.8	26.6	15.9	8.9		152.5
Albany	318.0	278.4	262.4	259.0	244.6	237.4	226.0	220.8	206.3	179.1	168.4	161.4	152.5	

"DON'T BE SHOCKED!"

"BOSTON" SHOCK ABSORBERS will save
Wear on your engine and transmission,
Breaking of your springs,
Dollars in your pocket,
Racking of your nerves and spinal column.

"BOSTON" SHOCK ABSORBERS will give you
More power from your engine,
More pleasure and comfort from autoing,
A more quiet running car.

"BOSTON" SHOCK ABSORBERS will increase
The life of your car 50%,
The mileage of travel per gallon of gasoline.



THE BOSTON
PAT. APPLIED FOR

The "BOSTON"

Does not stiffen or in any way injure the action of the springs.

Does not drag on the spring under any condition.

Does not get out of order.

Does prevent you from being thrown out of the seat.

Does prevent continued bouncing after a jounce.

Does really absorb the shock.

30 DAYS TRIAL

FULLY GUARANTEED

PRICE, $80.00 per set of four, with hangers fitted and already to put on.

EXPRESS PREPAID

KNAPP-GREENWOOD COMPANY

1000 BOYLSTON STREET, BOSTON, MASS.

BRANCHES:

BUCHANAN & BROKAW
707 Shukert Bldg., Kansas City, Mo.

THOMAS D. AUSTIN
249 W. 57th Street, New York City

MOTOR CAR SUPPLY CO.
Chicago, Ill.

JOHN S. MARTIN
Ross, Cal.

TABLE OF DISTANCES

	Buffalo	Syracuse	Fayetteville	Chittenango	Canastota	Oneida Castle	Kirkland	New Hartford	Utica	Herkimer	Little Falls	St. Johnsville	Fonda	Amsterdam	Schenectady	Albany
Buffalo	**P**	165.5	172.8	180.8	187.5	193.2	207.0	211.8	215.3	231.4	238.4	256.3	276.7	287.4	303.0	318.0
Syracuse	165.5	**H**	7.3	15.3	22.0	27.7	41.5	46.3	49.8	65.9	72.9	90.8	111.2	121.9	137.5	152.5
Fayetteville	172.8	7.3	**O**	8.0	14.7	22.4	36.2	39.0	42.5	58.6	65.6	83.5	103.9	114.6	130.2	145.2
Chittenango	180.8	15.3	8.0	**T**	6.7	12.4	26.2	31.0	34.5	50.6	57.6	75.5	95.9	106.6	122.2	137.2
Canastota	187.5	22.0	14.7	6.7	**O**	5.7	19.5	24.3	27.8	43.9	50.9	68.8	89.2	99.9	115.5	130.5
Oneida Castle	193.2	27.7	22.4	12.4	5.7		13.8	18.6	22.1	38.2	45.2	63.1	83.5	94.2	109.8	124.8
Kirkland	207.0	41.5	36.2	26.2	19.5	13.8	**A**	4.8	8.3	24.4	31.4	49.3	69.7	80.4	96.0	111.0
New Hartford	211.8	46.3	39.0	31.0	24.3	18.6	4.8	**U**	3.5	19.6	26.6	44.5	64.9	75.6	91.2	106.2
Utica	215.3	49.8	42.5	34.5	27.8	22.1	8.3	3.5	**T**	16.1	23.1	41.0	61.4	72.1	87.7	102.7
Herkimer	231.4	65.9	58.6	50.6	43.9	38.2	24.4	19.6	16.1	**O**	7.0	24.9	45.3	56.0	71.6	86.6
Little Falls	238.4	72.9	65.6	57.6	50.9	45.2	31.4	26.6	23.1	7.0		17.9	38.3	49.0	64.6	79.6
St. Johnsville	256.3	90.8	83.5	75.5	68.8	63.1	49.3	44.5	41.0	24.9	17.9	**M**	20.4	31.1	56.7	71.7
Fonda	276.7	111.2	103.9	95.9	89.2	83.5	69.7	64.9	61.4	45.3	38.3	20.4	**A**	10.7	26.3	41.3
Amsterdam	287.4	121.9	114.6	106.6	99.9	94.2	80.4	75.6	72.1	56.0	49.0	31.1	10.7	**P**	15.6	30.6
Schenectady	303.0	137.5	130.2	122.2	115.5	109.8	96.0	91.2	87.7	71.6	64.6	56.7	26.3	15.6	**S**	15.0
Albany	318.0	152.5	145.2	137.2	130.5	124.8	111.0	106.2	102.7	86.6	79.6	71.7	41.3	30.6	15.0	

WINESTOCK SPARK PLUGS

(QUICK DETACHABLE)

DON'T SKIP

Only quick detachable plug containing both terminals in the detachable member.

Absolutely will not leak compression

Positively will not work loose.

PRICE
$1.75

"Absolutely Guaranteed"

Gives the hottest spark of any plug made.

Non-breakable insulation.

Adjustable spark gap—once adjusted, always adjusted.

You can't imagine the convenience of a detachable plug until you have used one, it gives you a chance to examine your spark without using a wrench.

FOR SALE BY ALL FIRST-CLASS DEALERS

KNAPP-GREENWOOD COMPANY

1000 Boylston Street - - BOSTON, MASS.

TABLE OF DISTANCES

	Albany	Rensselaer	Schodack Center	Kinderhook	Stuyvesant Falls	Hudson	Blue Store	Upper Red Hook	Red Hook	Rhinebeck	Staatsburg	Hyde Park	Poughkeepsie	New York City
Albany		1.0	7.3	20.9	24.5	33.5	43.0	49.8	52.5	58.2	64.2	68.3	74.4	149.8
Rensselaer	1.0		6.3	19.9	23.5	32.5	42.0	48.8	51.5	57.2	63.2	67.3	73.4	148.8
Schodack Center	7.3	6.3		13.6	17.2	26.2	35.7	42.5	45.2	50.9	56.9	61.0	67.1	142.5
Kinderhook	20.9	19.9	13.6		3.6	12.6	22.1	28.9	31.6	37.3	43.3	47.4	53.5	128.9
Stuyvesant Falls	24.5	23.5	17.2	3.6		9.0	18.5	25.3	28.0	33.7	39.7	43.8	49.9	125.3
Hudson	33.5	32.5	26.2	12.6	9.0		9.5	16.3	19.0	24.7	30.7	34.8	40.9	116.3
Blue Store	43.0	42.0	35.7	22.1	18.5	9.5		6.8	9.5	15.2	21.2	25.3	31.4	106.8
Upper Red Hook	49.8	48.8	42.5	28.9	25.3	16.3	6.8		2.7	8.4	14.4	18.5	24.6	100.0
Red Hook	52.5	51.5	45.2	31.6	28.0	19.0	9.5	2.7		5.7	11.7	15.8	21.9	97.3
Rhinebeck	58.2	57.2	50.9	37.3	33.7	24.7	15.2	8.4	5.7		6.0	10.1	16.2	91.6
Staatsburg	64.2	63.2	56.9	43.3	39.7	30.7	21.2	14.4	11.7	6.0		4.1	10.2	85.6
Hyde Park	68.3	67.3	61.0	47.4	43.8	34.8	25.3	18.5	15.8	10.1	4.1		6.1	81.5
Poughkeepsie	74.4	73.4	67.1	53.5	49.9	40.9	31.4	24.6	21.9	16.2	10.2	6.1		75.4
New York City	149.8	148.8	142.5	128.9	125.3	116.3	106.8	100.0	97.3	91.6	85.6	81.5	75.4	

DETROIT and SOUTH BEND
OR ANYWHERE

An *abundance* of *enjoyable features* along the road, but an *over abundance* of *menacing features on the road.* Chances are a *thousand* to *one* in favor of the *menacing features* winning out — unless you squelch them.

You know that a succession of punctures and blow-outs will spoil the effect of *any trip* and ruffle the temper of a Saint—besides—tearing *big* holes in the pocket-book.

The *best* move *you* can make, *before* taking *any* trip—a block or a thousand miles—is to have your tires treated with

KEMIZITE

It Heals Punctures

The only absolute-harmless-permanent puncture healer

Guaranteed "Money Back" Basis

Clean — odorless	Only small quantity needed
Not a cement	Does not reduce resiliency
Not gummy	Does not interfere with vulcanization
Not sticky	Eliminates 75% of blow-outs
Not a filler	Increases mileage

Proportion — 5% Kemizite — 95% Air

Thousands of auto owners are using *KEMIZITE* with *absolute satisfaction.* More down right enjoyment than they ever experienced with tires before, and at greatly *decreased* expense.

This is the move for *you* to make. No matter what you *remember* of the *past—do this now.* Investigate *KEMIZITE*—satisfy yourself. Remember a "money back" guarantee goes with it.

AUTO TIRE-SECURITY COMPANY

1231 Michigan Ave. = = = = Chicago

TABLE OF DISTANCES

	New York City	Yonkers	Hastings	Dobbs Ferry	Irvington	Tarrytown	Ossining	Croton	Peekskill	Cold Spring	Fishkill Village	WappingersFalls	Poughkeepsie	Albany
New York City		14.2	18.7	20.2	21.4	24.5	30.6	34.3	42.1	53.5	62.7	67.8	75.4	149.8
Yonkers	14.2		4.5	6.0	7.2	10.3	16.4	20.1	27.9	39.3	48.5	53.6	61.2	135.6
Hastings	18.7	4.5		1.5	2.7	5.8	11.9	15.6	23.4	34.8	44.0	49.1	56.7	131.1
Dobbs Ferry	20.2	6.0	1.5		1.2	4.3	10.4	14.1	21.9	33.3	42.5	47.6	55.2	129.6
Irvington	21.4	7.2	2.7	1.2		3.1	9.2	12.9	20.7	32.1	41.3	46.4	54.0	128.4
Tarrytown	24.5	10.3	5.8	4.3	3.1		6.1	9.8	17.6	29.0	38.2	43.3	50.9	125.3
Ossining	30.6	16.4	11.9	10.4	9.2	6.1		3.7	11.5	22.9	32.1	37.2	44.8	119.2
Croton	34.3	20.1	15.6	14.1	12.9	9.8	3.7		7.8	19.2	28.4	33.5	41.1	115.5
Peekskill	42.1	27.9	23.4	21.9	20.7	17.6	11.5	7.8		11.4	20.6	25.7	33.3	107.7
Cold Spring	53.5	39.3	34.8	33.3	32.1	29.0	22.9	19.2	11.4		9.2	14.3	21.9	96.3
Fishkill Village	62.7	48.5	44.0	42.5	41.3	38.2	32.1	28.4	20.6	9.2		5.1	12.7	87.1
WappingersFalls	67.8	53.6	49.1	47.6	46.4	43.3	37.2	33.5	25.7	14.3	5.1		7.6	82.0
Poughkeepsie	75.4	61.2	56.7	55.2	54.0	50.9	44.8	41.1	33.3	21.9	12.7	7.6		74.4
Albany	149.8	135.6	131.1	129.6	128.4	125.3	119.2	115.5	107.7	96.3	87.1	82.0	74.4	

Table of Mileage

		MILES
South Bend to	Lakeville	10.5
" "	Lapaz	16.3
" "	Plymouth	24.5
" "	Argos	32.6
" "	Rochester	44.5
" "	Perrysburg	58.1
" "	Mexico	63.9
" "	Peru	69.8
" "	Bunker Hill	78.7
" "	Miami	82.5
" "	Kokomo	93.0
" "	Sharpsville	102.8
" "	Tipton	112.5
" "	Atlanta	118.4
" "	Arcadia	122.0
" "	Cicero	125.2
" "	Noblesville	131.5
" "	Indianapolis	155.2
Indianapolis to	Noblesville	23.7
" "	Cicero	30.0
" "	Arcadia	33.2
" "	Atlanta	36.8
" "	Tipton	42.7
" "	Sharpsville	52.4
" "	Kokomo	62.2
" "	Miami	72.7
" "	Bunker Hill	76.5
" "	Peru	85.4
" "	Mexico	91.3
" "	Perrysburg	97.1
" "	Rochester	110.7
" "	Argos	122.6
" "	Plymouth	130.7
" "	Lapaz	138.9
" "	Lakeville	144.7
" "	South Bend	155.2

Table of Distances

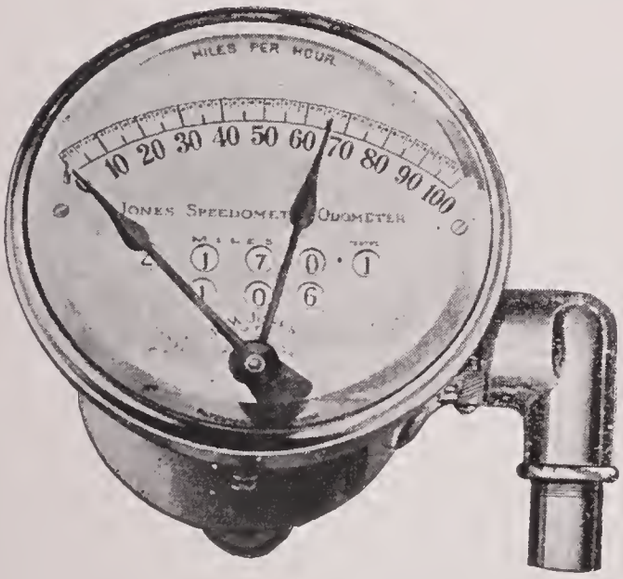
	MILES
South Bend to Lakeville	10.5
Lakeville to Lapaz	5.8
Lapaz to Plymouth	8.2
Plymouth to Argos	8.1
Argos to Rochester	11.9
Rochester to Perrysburg	13.6
Perrysburg to Mexico	5.8
Mexico to Peru	5.9
Peru to Bunker Hill	8.9
Bunker Hill to Miami	3.8
Miami to Kokomo	10.5
Kokomo to Sharpsville	9.8
Sharpsville to Tipton	9.7
Tipton to Atlanta	5.9
Atlanta to Arcadia	3.6
Arcadia to Cicero	3.2
Cicero to Noblesville	6.3
Noblesville to Indianapolis	23.7

TURN TO RIGHT AND STOP

If your car is not equipped with a reliable speed-indicator. No use touring without the famous

JONES SPEEDOMETER

The BEST speed-indicator on the market. The PIONEER. The Winner of the R. A. C. Gold Medal for ACCURACY. The Jones is indispensable when touring because—it is absolutely reliable and dependable. It is used by the majority of motorists the world over. It is part equipment of practically every car on tour. See that you have a Jones on your dash. By means of the Odometer you can compute the distance cited on the maps—and you KNOW your speed at all times under all conditions.



Write for folder containing illustrations and prices of all models.

Jones Speedometer Dept.
United Manufacturers, Inc.
Broadway and 76th Street
New York

Table of Distances

TOLEDO—DETROIT

	MILES
Toledo to Erie	11.1
" " Monroe	20.9
" " Trenton	41.7
" " Wyandotte	46.2
" " Detroit	57.0

Detroit to Wyandotte	10.8
" " Trenton	15.3
" " Monroe	36.1
" " Erie	45.9
" " Toledo	57.0

Toledo to Erie	11.1
Erie to Monroe	9.8
Monroe to Trenton	20.8
Trenton to Wyandotte	4.5
Wyandotte to Detroit	10.8

Table of Mileage

ALBANY—SARATOGA SPRINGS

	MILES
Albany to Cohoes	12.2
" " Waterford	14.2
" " Mechanicsville	22.6
" " Maltaville	28.6
" " Dunning Street	30.8
" " Saratoga Springs	38.6
Saratoga Springs to Dunning Street	7.8
" " " Maltaville	10.0
" " " Mechanicsville	16.0
" " " Waterford	24.4
" " " Cohoes	26.4
" " " Albany	38.6

Table of Distances

ALBANY—SARATOGA SPRINGS

	MILES
Albany to Cohoes	12.2
Cohoes to Waterford	2.0
Waterford to Mechanicsville	8.4
Mechanicsville to Maltaville	6.0
Maltaville to Dunning Street	2.2
Dunning Street to Saratoga Springs	7.8

VIVAX
STORAGE BATTERIES

6 VOLT 80 AMPERES
SPECIALLY BUILT FOR
LIGHTING PURPOSES

PRICE_____$24.00

WE GUARANTEE SATISFACTION

Why The "VIVAX" Excells

Mechanical Strength; Perfect Insulation; Compact and Clean; No Corrosion of Terminals; Free from Mechanical Defects, or Faulty Workmanship.

The "VIVAX" Battery is especially built to withstand the constant jar of the Automobile and may be used on the heaviest truck or the lightest pleasure Vehicle.

VIVAX IGNITION BATTERIES

6 Volt 60 Amperes_____$20.00
6 Volt Special_____ 15.00
6 Volt Junior_____ 11.50

Manufactured by

VIVAX STORAGE BATTERY CO.

2224-2234 Michigan Avenue - CHICAGO, ILLINIOS

Population of Towns

CHICAGO—SOUTH BEND

Chicago	2,049,185
Hammond . . .	15,956
Highlands . . .	25
Hobart	1,390
Wheeler	100
Valparaiso . . .	6,280
Westville . . .	468
La Porte	7,113
New Carlisle . . .	597
South Bend . . .	36,000

Population of Towns

SOUTH BEND—TOLEDO

South Bend	36,000
Mishawaka	5,600
Osceola	1,000
Dunlap	200
Goshen	7,800
Benton	200
Ligonier	2,200
Wawaka	300
Brimfield	200
Kendallville	3,400
Waterloo	1,200
Butler	2,100
Edgerton	1,000
Bryan	3,100
Stryker	1,200
Archbold	1,000
Wauseon	2,100
Delta	1,200
Swanton	900
Toledo	131,000

Population of Towns

TOLEDO—CLEVELAND

Toledo	131,000
Genoa	800
Woodville	800
Hessville	50
Fremont	8,500
Clyde	2,500
Bellview	1,000
Monroeville	1,200
Norwalk	7,000
Townsend	75
Wakeman	300
Kipton	100
Oberlin	4,000
Elyria	8,800
Ridgeville	200
Dover	50
Cleveland	381,800

Population of Towns

CLEVELAND—BUFFALO

Cleveland, O.	381,768
Willoughby, O.	1,753
Mentor, O.	624
Painesville, O.	5,024
Geneva, O.	2,342
Ashtabula, O.	12,949
Conneaut, O.	7,133
West Springfield, Pa.	203
East Springfield, Pa.	591
Girard, Pa.	691
Fairview, Pa.	327
Erie, Pa.	52,733
Wesleyville, Pa.	567
Harbour Creek, Pa.	161
North East, Pa.	2,068
Ripley, N.Y.	810
Westfield, N.Y.	2,430
Portland, N.Y.	552
Brocton, N.Y.	900
Fredonia, N.Y.	4,127
Sheridan, N.Y.	100
Silver Creek, N.Y.	1,944
Irving, N.Y.	50
Buffalo, N.Y.	352,387

Population of Towns

BUFFALO—SYRACUSE

Buffalo	352,387
Snyder	50
Williamsville	905
Clarence	670
Pembroke	310
East Pembroke	405
Batavia	9,180
Byron	342
Bergen	624
Churchville	505
North Chili	101
Rochester	162,608
Pittsford	1,000
Egypt	162
Macedon	592
Palmyra	1,937
Port Gibson	50
Phelps	1,306
West Junius	29
Magee Corners	61
Auburn	30,345
Sennett	403
Elbridge	549
Camillius	567
Syracuse	108,374

Population of Towns

SYRACUSE—ALBANY

Syracuse	117,493
De Witt	2,509
Fayetteville	1,304
Mycenae	50
Chittenango	787
Sulivan	159
Canastota	3,030
Oneida	3,420
Oneida Castle	291
Sherill	230
Vernon	380
Kirkland	132
New Hartford	1,007
Utica	62,935
Deerfield	691
West Shuyler	261
East Shuyler	108
Frankfort	2,664
Ilion	5,138
Herkimer	5,555
Little Falls	11,122
St. Johnsville	1,873
Nelliston	634
Palatine Bridge	360
Fonda	1,145
Amsterdam	23,923
Scotia	361
Schenectady	58,369
Albany	98,370

Population of Towns

ALBANY—NEW YORK CITY

Albany	98,370
Rensselaer	10,715
Schodack Center	102
Kinderhook	913
Stuyvesant Falls	792
Stockport	481
Stottville	1,069
Hudson	10,290
Blue Store	134
Upper Red Hook	75
Red Hook	857
Rhinebeck	1,449
Staatsburg	479
Hyde Park	2,873
Poughkeepsie	25,379
Wappingers Falls	3,504
Fishkill Village	589
Nelsonville	624
Cold Spring	2,067
Peekskill	10,562
Buchanan	75
Croton	100
Ossining	7,939
Tarrytown	4,770
Irvington	2,231
Dobbs Ferry	2,888
Hastings	2,002
Yonkers	61,716
New York City	4,014,304

Population of Towns

ALBANY—SARATOGA SPRINGS

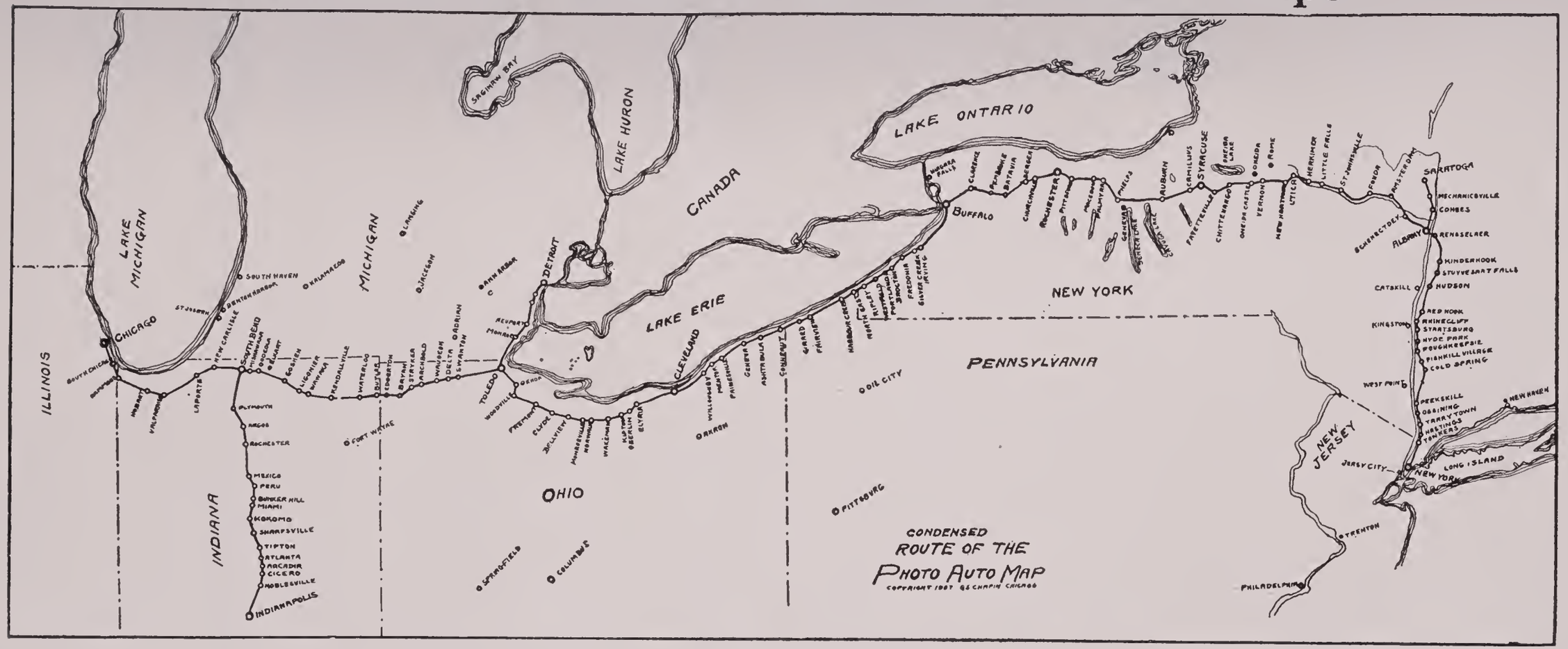
Albany	98,360
Cohoes	24,183
Waterford	3,146
Mechanicsville . . .	4,695
Maltaville	92
Dunning Street . . .	50
Saratoga Springs . .	12,538

Population of Towns

SOUTH BEND—INDIANAPOLIS

South Bend	36,000
Lapaz	400
Plymouth	3,656
Argos	1,307
Rochester	3,421
Perrysburg	700
Mexico	500
Peru	11,648
Bunker Hill	568
Miami	390
Kokomo	12,019
Sharpsville	650
Tipton	3,764
Atlanta	1,500
Arcadia	1,413
Cicero	1,603
Noblesville	4,792
Indianapolis	219,154

Condensed Route of the Photo-Auto Maps



No. 164

THE IROQUOIS HOTEL, BUFFALO, N. Y.

STARTING POINT for run from Buffalo to Albany. This is the best hotel in Buffalo for the accommodation of tourists. European plan and everything first-class. Located on Main Street, in the heart of the business and shopping district. Leave the hotel on the RIGHT and go North on Main Street. Snyder seven and eight-tenths miles. Williamsville nine and nine-tenths miles. Clarence eighteen and one-tenth miles. Pembroke twenty-six miles. East Pembroke thirty-two and six-tenths miles. Next photo in Batavia (photo No. 165), thirty-nine and six-tenths miles.

Memo .....

STANDARD GARAGE CO.

1114-1116 MAIN STREET, BUFFALO, N. Y.

Leave the Iroquois Hotel and go SOUTH over Main St. about one mile finding garage on left hand side of street number 1114-1116 Main St. The largest garage in Buffalo, open day and night for supplies and repairs. Absolutely fireproof. Special attention given to tourists.

Memo.....

.....

No. 165

BATAVIA

Turn LEFT and leave Main Street at end of car tracks. Next photo one and eight-tenths miles.

HOTEL RICHMOND, BATAVIA, N. Y.

he best hotel between Buffalo and Rochester. Special attention given to tourists. Hilts & Kennedy's new garage on opposite side of Main Street. Storage, supplies and repairs.

emo

No. 166

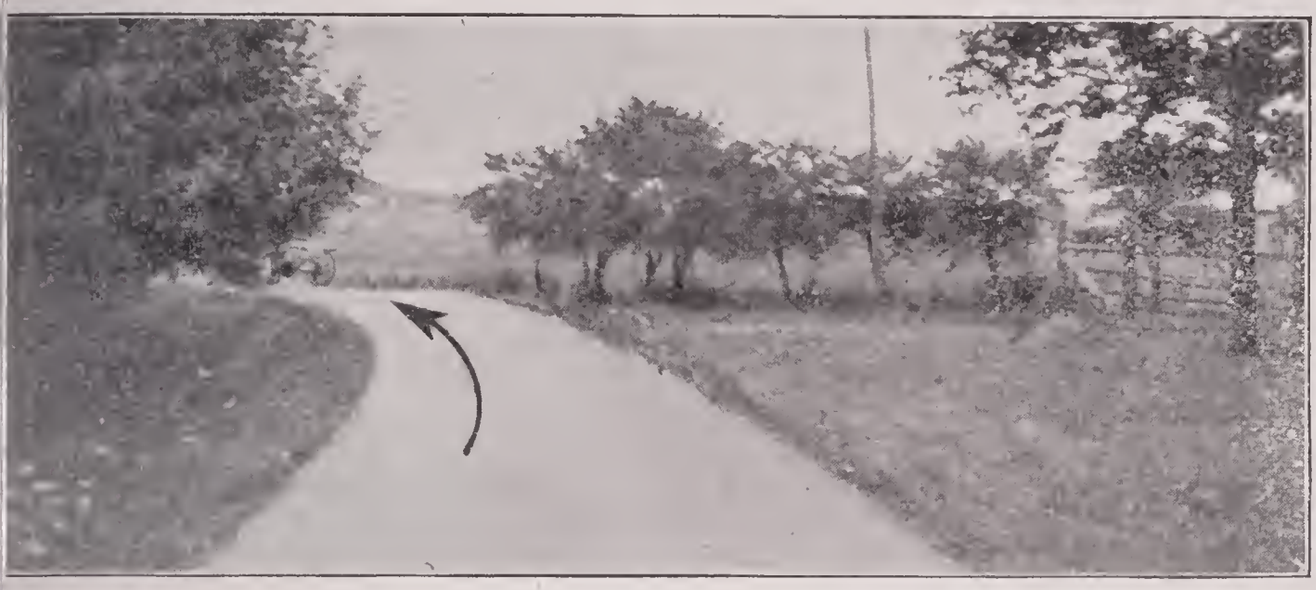
Turn LEFT and North. Roadhouse on right after turning Next photo eight-tenths of a mile.

Memo .....

No. 167

Turn RIGHT and East. Next photo at end of road, four tenths of a mile.

No. 168



urn LEFT and North at end of road. Next photo at fork, seven-tenths of a mile.

Memo

No. 169

ake RIGHT road at fork. Next photo at fork, five-tenths of a mile.

No. 170

Go STRAIGHT AHEAD on left-hand road at fork. Next photo three and seven-tenths miles.

Memo .....

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No. 171

Turn RIGHT and East. Byron nine-tenths of a mile. Next photo six and two-tenths miles.

No. 172

Turn LEFT and North. Bergen one and two-tenths miles. Churchville four and six-tenths miles. Next photo five and six-tenths miles.

Memo .....

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No. 173

Go STRAIGHT AHEAD. North Chili three and three-tenths miles. Next photo in Rochester, thirteen and four-tenths miles.

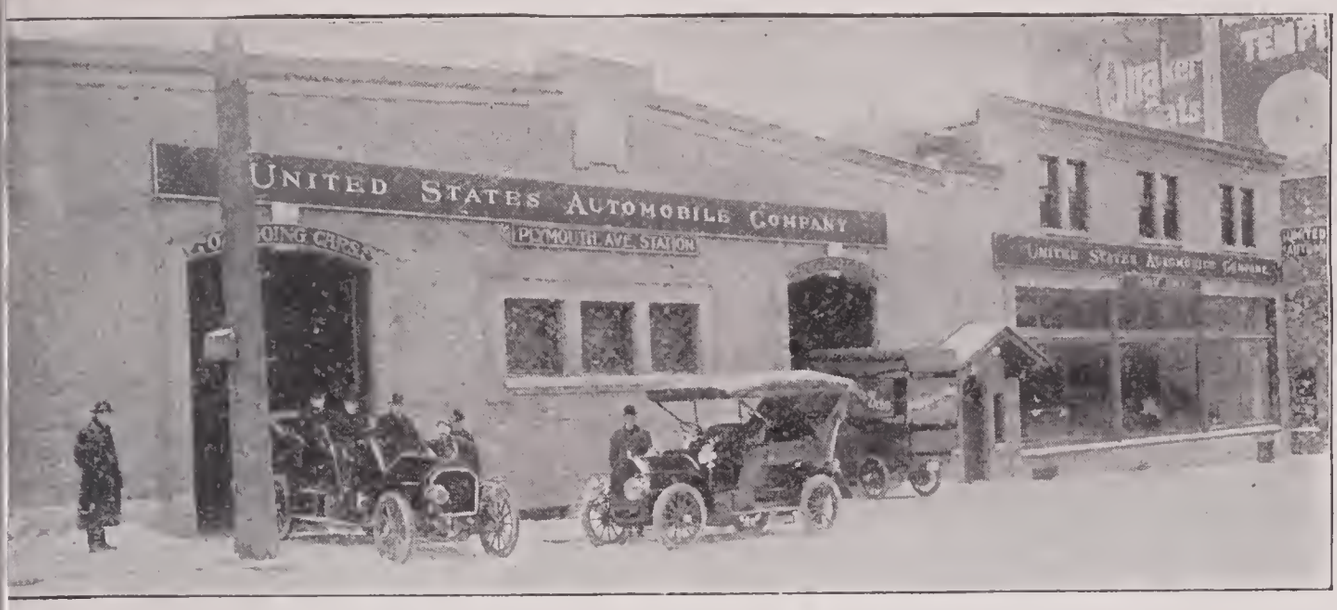
No. 174

SENECA HOTEL, ROCHESTER, N. Y.

A. M. WOOLLEY, Manager

Rochester's New Fireproof Hotel Clinton Avenue South. 350 rooms, 300 with tub or shower bath. European plan, $1.50 per day and upward. Write for illustrated booklet. Next photo for Syracuse (photo No. 175) at Clinton Avenue, six-tenths of a mile.

Memo.....



UNITED STATES AUTOMOBILE CO.

21 TO 29 PLYMOUTH AVENUE

The largest and best garage in Rochester. Turn RIGHT into Plymouth Avenue, one block before reaching Powers Hotel. Repairing and sundries. Agents for the Pierce Arrow, Stearns, Stevens-Duryea and Locomobile. Ask for a tour book for trips around Rochester.

Memo .....

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No. 175

Turn RIGHT from Main Street into Clinton Avenue. Next photo at park, three-tenths of a mile.

No. 176

Turn LEFT from Clinton Avenue into Monroe Avenu Brighton two and seven-tenths miles. Pittsford six an three-tenths miles. Next photo at fork, eight and fou tenths miles.

Memo .....

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No. 177

Take RIGHT road at fork. Schoolhouse at point of for Egypt three and seven-tenths miles. Macedon nine an three-tenths miles. Next photo entering Palmyra, thirte and five-tenths miles.

No. 178

'urn RIGHT into Palmyra. Four church spires straight ahead after turning. Next photo in Palmyra, four-tenths of a mile.

Iemo .....

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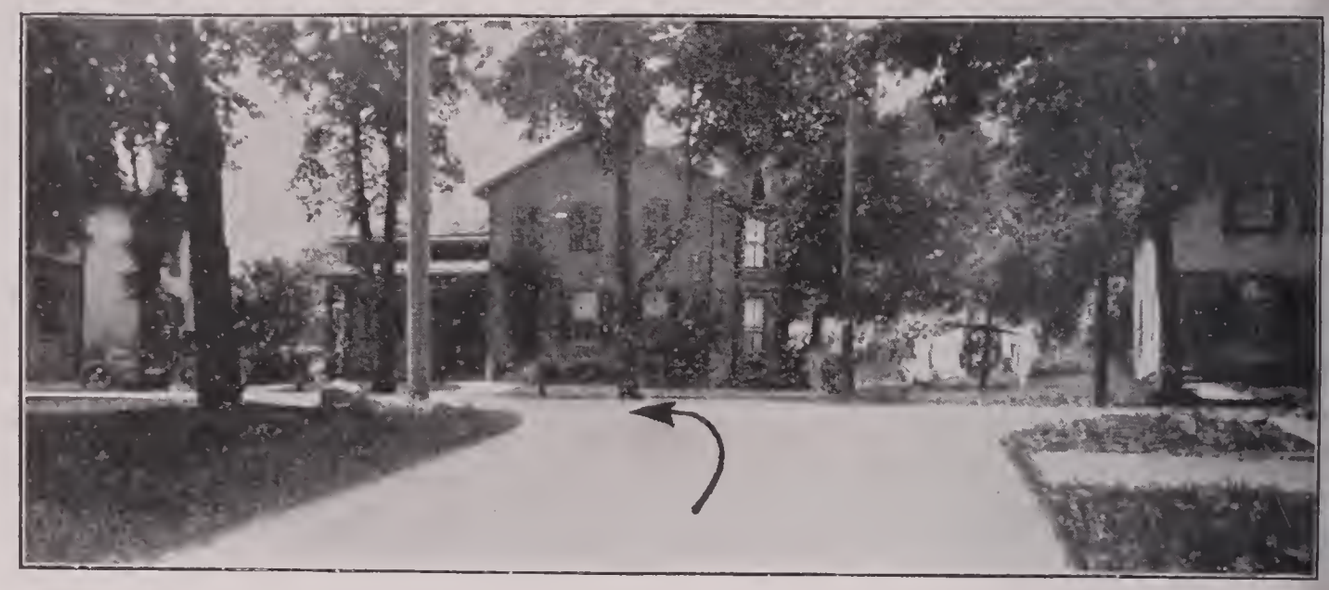
No. 179

PALMYRA

Turn LEFT into Main Street. Next photo at end of street, five-tenths of a mile.

No. 180



Turn LEFT at end of street. Port Gibson four and nine-tenths miles. Next photo six and five-tenths miles.

Memo .....

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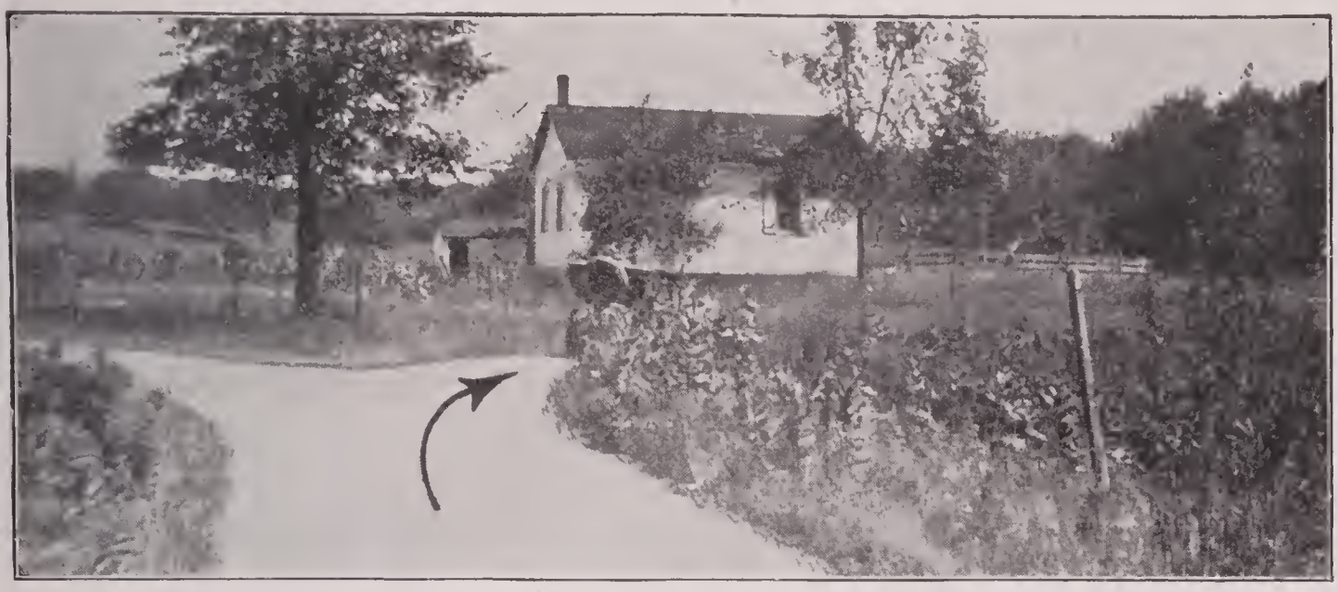
No. 181

Turn LEFT at fork. Next photo at end of road, seven-tenths of a mile.

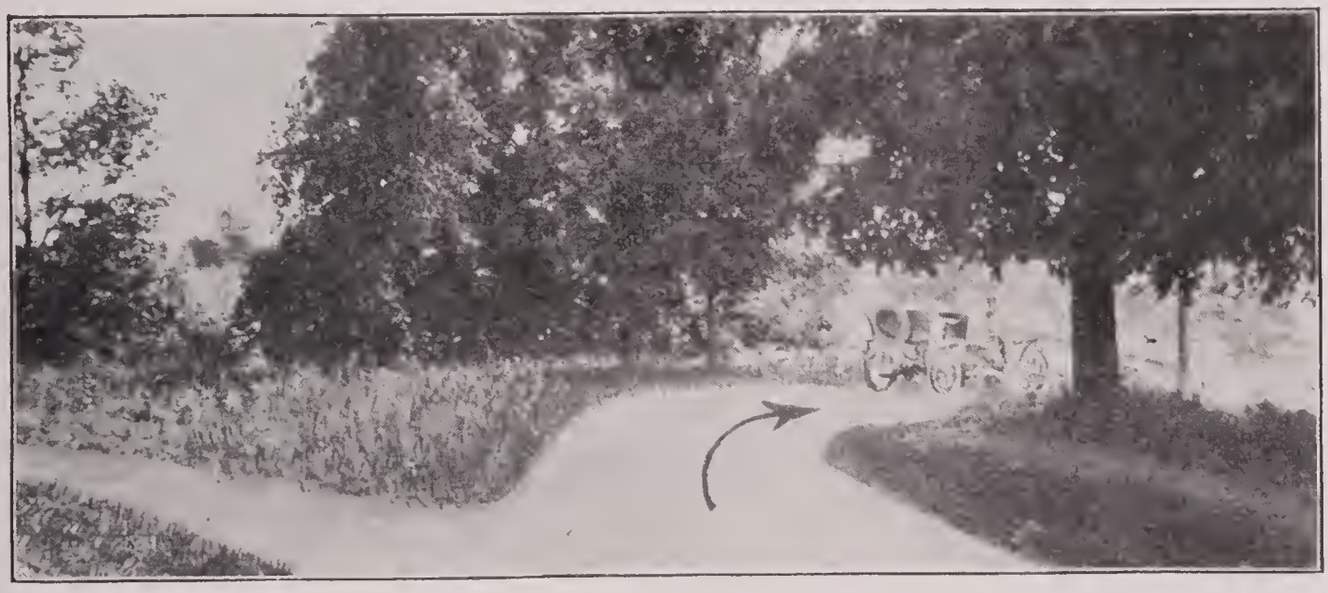
No. 182



Turn RIGHT at end of road. Next photo at end of road, two and three-tenths miles.

Memo .....

No. 183



Turn RIGHT at end of road. Follow river to next photo, four-tenths of a mile.

No. 184

Turn LEFT and cross river. Next photo entering Phelps, three and three-tenths miles.

Memo .....

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No. 185

PHELPS

Turn LEFT into Phelps. Next photo three and three-tenths miles.

No. 186

Go STRAIGHT AHEAD. Road to right goes to Geneva. Next photo one and eight-tenths miles.

Memo.....

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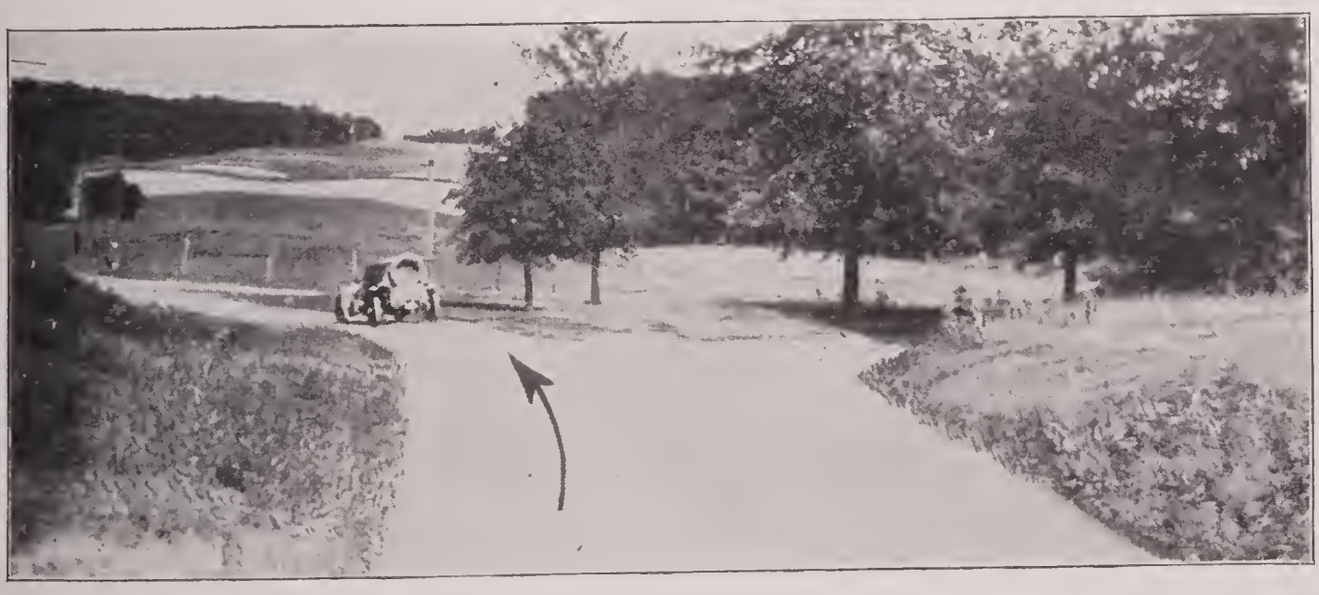
No. 187



Go STRAIGHT AHEAD at this corner. Junius three-tenths of a mile. Next photo five miles.

No. 188

Take LEFT road at fork. Follow wires. Next photo two tenths of a mile.

Memo .....

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No. 189

Take RIGHT road at fork. Follow the wires. Next photo nine and eight-tenths miles.

No. 190

Turn RIGHT at top of hill. Next photo four-tenths of a mile.

Memo .....

No. 191

Turn LEFT. Next photo six and three-tenths miles.

No. 192

Take RIGHT road at fork. Next photo at end of street in Auburn, one and one-tenth miles.

No. 193

AUBURN

Turn RIGHT at end of Clark Street into State Street. Next photo one block, at end of street. For the Osborn House, turn left at this corner and go one block. This hotel has first-class accommodations. Both American and European plan, with a fine Grill Room and Cafe in connection. The Auburn Automobile Co.'s Garage is just back of the Osborn House. This is a large, new garage, fully equipped to do all kinds of repairing. Batteries charged, and supplies of all kinds always on hand.

THE OSBORNE HOUSE, AUBURN, N. Y.

American and European plan. The best hotel in Auburn.

GRILL ROOM

One of the best grill rooms in New York State.

AUBURN AUTOMOBILE CO.

54-60 WATER STREET, AUBURN, N. Y.

Next door to the Osborn House. Fireproof. Accommodations for fifty cars. Storage, supplies and repairs. Agents for the Franklin, Peerless, Buick, Waltham and Pope-Waverly.

Memo .....

No. 194

urn LEFT at end of State Street into Genesee Street. Follow car tracks to next photo, five-tenths of a mile.

Memo .....

No. 195

Turn LEFT from East Genesee Street into Fulton Street. Next photo one-tenth of a mile.

No. 196

Turn RIGHT from Fulton Street into Grant Street. Nex
photo four and three-tenths miles.

Memo .....

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No. 197

Turn RIGHT and North-East. Sennett seven-tenths of a mile
Elbridge five and four-tenths miles. Next photo twelv
and six-tenths miles.

No. 198

Turn RIGHT on steep hill. Camillius three-tenths of a mile. Next photo in Syracuse, seven and two-tenths miles.

Memo .....

No. 199

Go STRAIGHT AHEAD on West Genesee Street. Leave car tracks. Next photo one and five-tenths miles.

No. 200

Turn RIGHT from West Genesee Street and cross canal. Then turn left into East Genesee Street. Next photo one block after crossing canal.

Memo .....

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No. 201

Take RIGHT fork. Next photo one block.

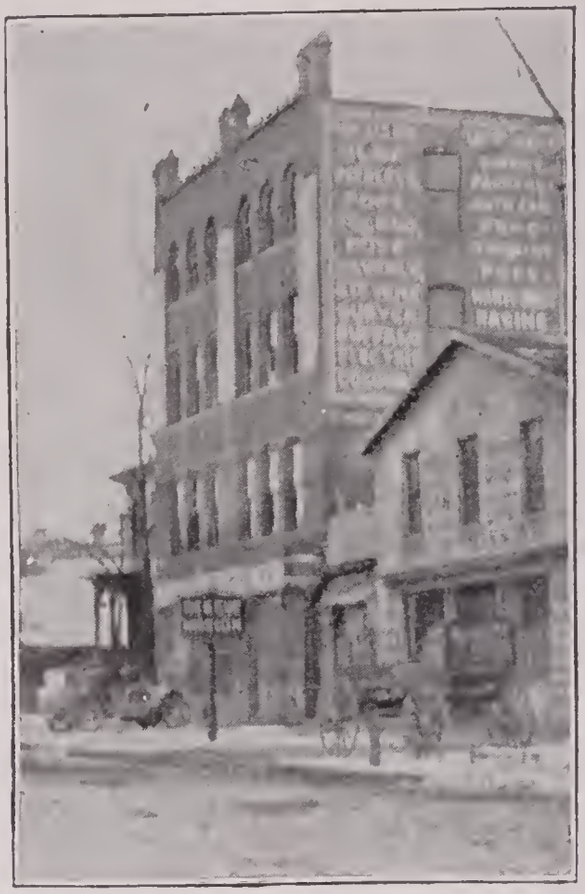
No. 202

THE YATES, SYRACUSE, N. Y.

(THE YATES HOTEL CO., C. S. Averill, Pres.)

This is the best and largest hotel in Syracuse. European plan with Grill Room and Cafe in connection. Opposite the City Hall. Leave the Yates on the RIGHT and go East on East Genesee Street. Next photo for Albany, one-tenth of a mile.

Memo .....



AMOS & PIERCE AUTOMOBILE CO.

The best garage in Syracuse. Storage, supplies and repairs. Agents for the Oldsmobile, Peerless, Pope-Toledo, Stevens-Duryea, Columbia, Locomobile, Packard, Pope-Tribune, Pope-Hartford and Racine. Leave the Yates on the RIGHT and go East on Washington Street. Go one block and turn left into State Street. Garage half a block.

Memo .....

No. 203

Turn RIGHT at park. Go to next street and turn left around park. Next photo one and three-tenths miles.

Memo .....

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No. 204

Take RIGHT road at fork. Leave street car tracks. Next photo six-tenths of a mile.

No. 205

Take RIGHT road at fork just after leaving pavement. De Witt two and five-tenths miles. Next photo three and seven-tenths miles. Two toll stations between photos Nos. 205 and 206.

Memo .....

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No. 206

Take LEFT road at fork. Next photo in Fayetteville, two and one-tenth miles.

No. 207

FAYETTEVILLE

Take LEFT road at fork in Fayetteville. Mycenae four and three-tenths miles. Next photo five and four-tenths miles.

Memo .....

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No. 208

STRAIGHT AHEAD. Next photo in Chittenango, three and three-tenths miles.

No. 209

CHITTENANGO

Turn LEFT into Main Street. Next photo three-tenths of a mile.

Memo .. ..

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No. 210

STRAIGHT AHEAD on Main Street. Next photo three-tenths of a mile.

No. 211

ırn RIGHT at edge of town. Sulivan nine-tenths of a mile. Canastota six miles. Oneida Castle eleven and seven-tenths miles. Next photo twelve and eight-tenths miles.

emo .....

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No. 212

ırn LEFT at fork and cross viaduct. Next photo at end of road in Sherill, one and two-tenths miles.

No. 213

SHERILL

Turn LEFT at end of road and go under railroad. Vernon three and one-tenth miles. Next photo four and five-tenths miles.

Memo .....

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No. 214

Take LEFT road at fork. Kirkland seven miles. New Hartford eleven and eight-tenths miles. Next photo in Utica, fourteen and six-tenths miles.

No. 215

UTICA

STRAIGHT AHEAD on Genesee Street for Albany. Next photo four-tenths of a mile. For Utica Motor Car Co. turn right into Bleeker Street at this corner.

Memo .....

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No. 216

STRAIGHT AHEAD across railroad tracks on Genesee Street. Next photo in Deerfield, one and one-tenth miles.

UTICA MOTOR CAR CO.

333-335-337 BLEEKER STREET

This is the best garage in Utica. Storage, repairs and supplies. Agents for Pierce Arrow, Peerless, Thomas, Stevens-Duryea, Buick and Cadillac.

Memo .....

No. 217

DEERFIELD

Turn RIGHT and East with car tracks. East Shuyler eight and four-tenths miles. On opposite side of river the towns of Frankfort (nine and four-tenths miles) and Ilion (eleven and five-tenths miles) are passed. Next photo entering Herkimer, thirteen and five-tenths miles.

Memo .....

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No. 218

Keep to LEFT entering Herkimer. Next photo in Herkimer, six-tenths of a mile.

No. 219

HERKIMER

Turn RIGHT into Main Street in Herkimer. Next photo four-tenths of a mile.

Memo .....

No. 220

Turn LEFT and East at railroad tracks. Do not cross tracks. Follow river road to Little Falls seven miles. C. A. Ross Motor Car Co., 40 W. Main Street, in Little Falls. Repairs and supplies of all kinds. Follow Main Street through town. Next photo one and nine-tenths miles from C. A. Ross' garage.

No. 221

TRAIGHT AHEAD at Suspension Bridge. Bridge connects north river road with south river road. The north road runs along the bank of the Mohawk River and the Erie Canal for about fifty miles and the scenery is very beautiful. St. Johnsville sixteen miles. Nelliston twenty-two miles. Palatine Bridge twenty-four and eight-tenths miles. Fonda thirty-six and four-tenths miles. Hotel Brunswick in Fonda furnishes first-class accommodations for tourists. Located on left-hand side of Main Street. The new garage of the Mohawk Machine Shop located on Main Street, west of Hotel Brunswick. Supplies and repairs of all kinds. Next photo (No. 222) in Amsterdam, ten and seven-tenths miles from Hotel Brunswick.

Memo .....

HOTEL BRUNSWICK, FONDA, N. Y.

Hotel and Restaurant. First-class accommodations for tou ists. Mohawk Machine Shop and new garage just west this hotel. Storage, supplies and repairing.

Memo .....

No. 222

AMSTERDAM

Turn RIGHT at end of Spring Street into Market Street. Next photo two-tenths of a mile.

Memo .....

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No. 223

Turn LEFT from Market Street into Main Street. Scotia fourteen and five-tenths miles. Next photo in Schenectady, fifteen and six-tenths miles.

No. 224

SCHENECTADY

Turn LEFT at the Freeman Hotel. Next photo at park, five-tenths of a mile.

Memo .....

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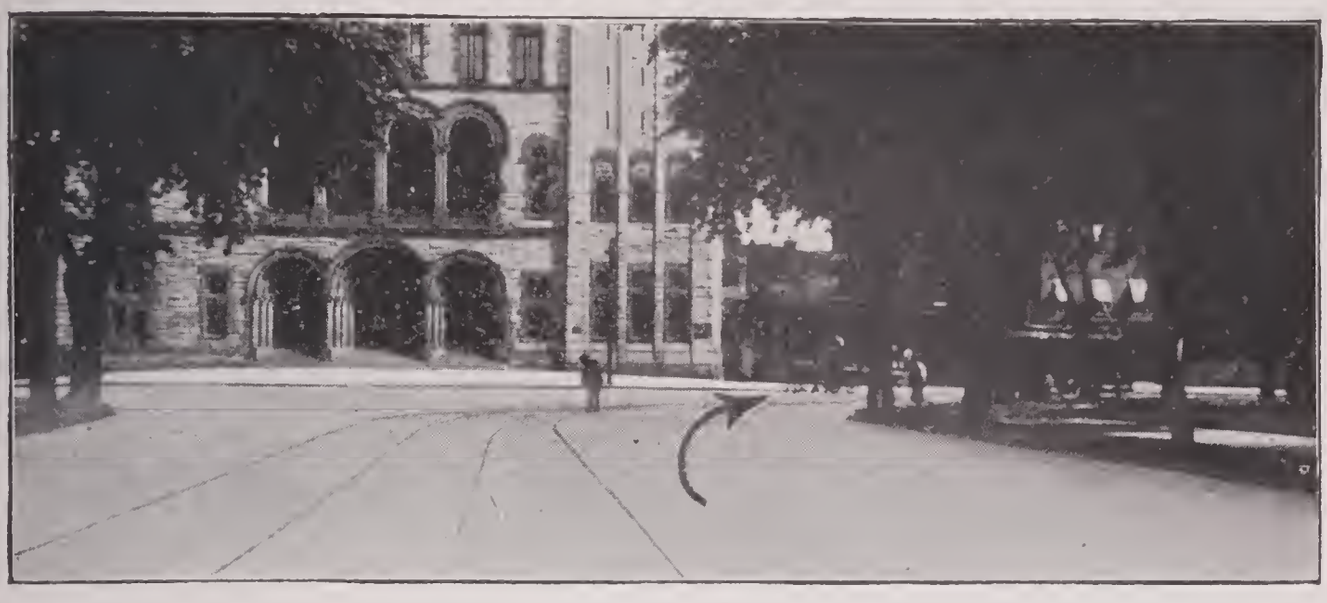
No. 225

Take LEFT fork at park. Next photo in Albany, fourteen and eight-tenths miles.

No. 226



ALBANY

Turn RIGHT around Capitol and then left into first street. Next photo two blocks down State Street.

Memo .....

No. 227

THE TEN EYCK, ALBANY, N. Y.

STARTING POINT for run from Albany to New York City. The most attractive hotel in New York State. Fireproof. European plan. Near State Capitol and other points of interest. Leave hotel on the LEFT and go one block to next photo.

Memo .....

ALBANY GARAGE CO.

28-30 HOWARD STREET

Absolutely fireproof. Storage, repairs and supplies. Agents for the Peerless, Stevens-Duryea, Thomas, Matheson, Isotta Fraschini, and the S. & M. Simplex. Leave the Ten Eyck on the RIGHT and go to first street on the left. Turn left into Lodge Street. Go one block and turn left into Howard Street. Garage on right-hand side of street.

Memo.....

No. 228

Turn RIGHT from State Street into Pearl Street. Nex
photo five-tenths of a mile.

Memo .....

No. 229

Turn LEFT from Pearl Street into South Ferry Street. Nex
photo at end of street, two-tenths of a mile.

No. 230

Make "S" turn at end of street and cross bridge over the Hudson River. Next photo in Rensselaer, four-tenths of a mile.

Memo .....

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No. 231

RENSSELAER

Turn RIGHT with car tracks. Next photo eight-tenths of a mile.

No. 232

STRAIGHT AHEAD. East Greenbush four and one-tenth miles. Schodack Center five and four-tenths miles. Next photo five and five-tenths miles.

Memo .....

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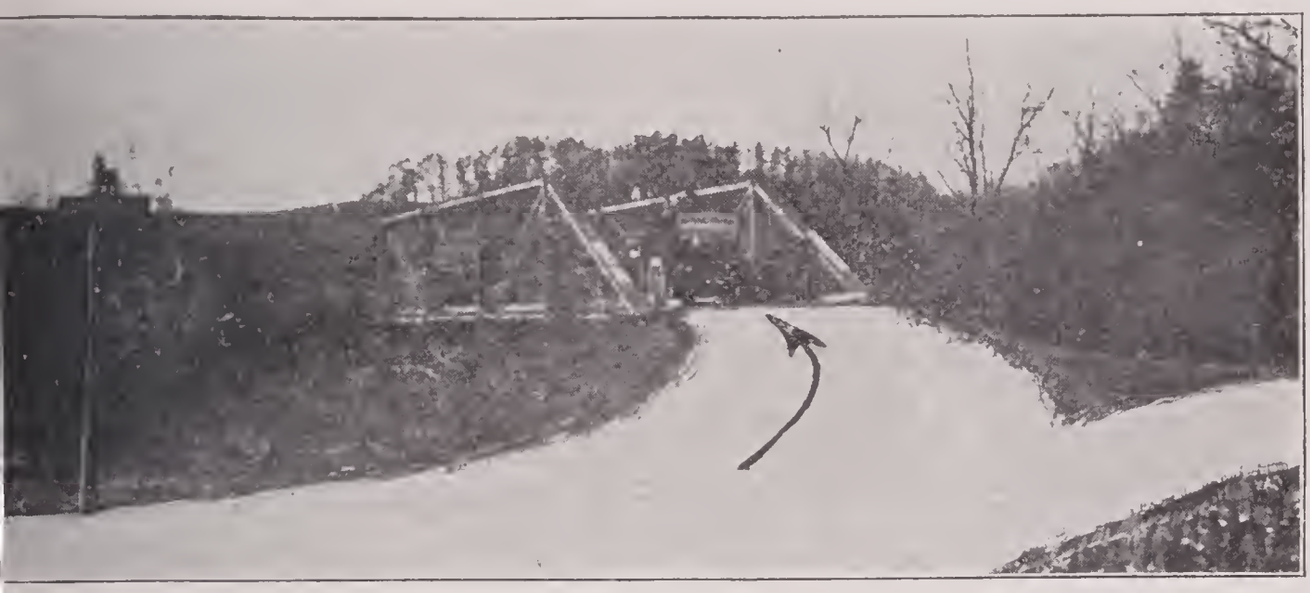
No. 233

Turn RIGHT just beyond Schodack Center Hotel. Next photo one and four-tenths miles.

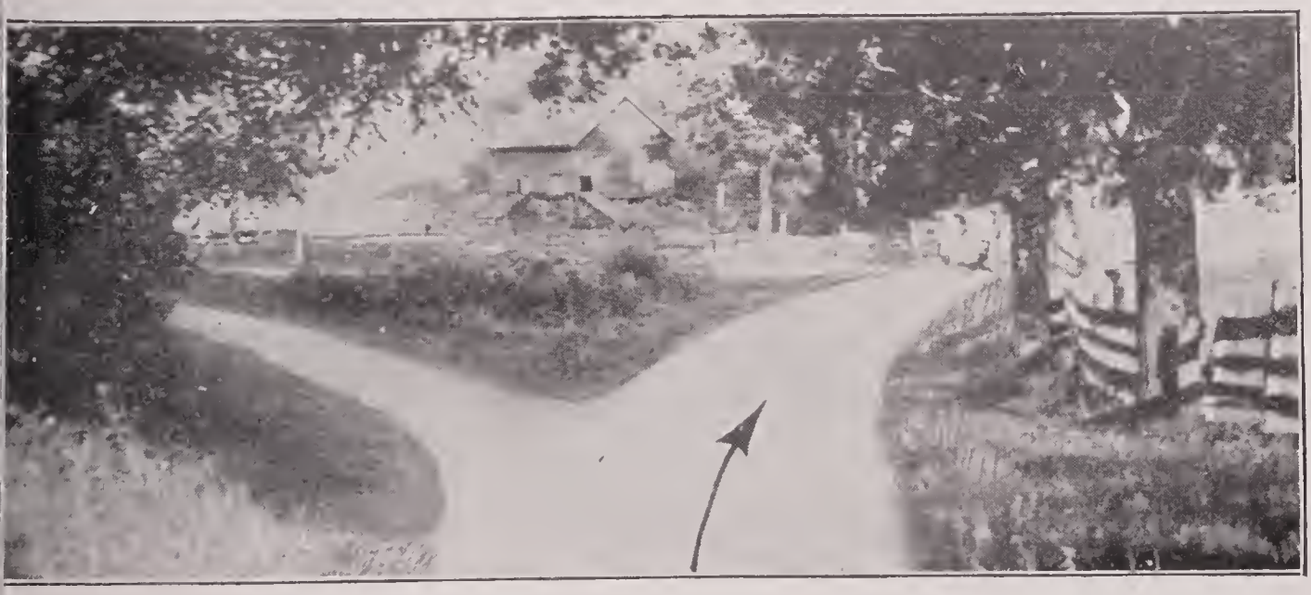
No. 234



urn LEFT and cross bridge. Next photo two and two-tenths miles.

emo .....

No. 235



urn RIGHT. Next photo seven and three-tenths miles.

No. 236

STRAIGHT AHEAD. Next photo five-tenths of a mile.

Memo .....

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No. 237

Turn LEFT at fork. Next photo in Kinderhook two and two-tenths miles.

No. 238

KINDERHOOK

'urn RIGHT in Kinderhook. Next photo one and five-tenths miles.

Iemo .....

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No. 239

Turn LEFT and follow wires. Cross bridge into Stuyvesant Falls, two and one-tenth miles. Stockport five and two-tenths miles. Next photo seven and six-tenths miles.

No. 240

Turn LEFT. Next photo in Stottville, one and six-tent miles.

Memo .....

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No. 241

STOTTVILLE

Take RIGHT road at fork. Next photo four-tenths of mile.

No. 242

TRAIGHT AHEAD on macadam road. Next photo in Hudson, two and seven-tenths miles.

emo .....

No. 243

HUDSON

TRAIGHT AHEAD. Follow car tracks. Next photo two-tenths of a mile.

No. 244

Turn LEFT. Leave car tracks. Next photo three-ten
of a mile.

Memo .....

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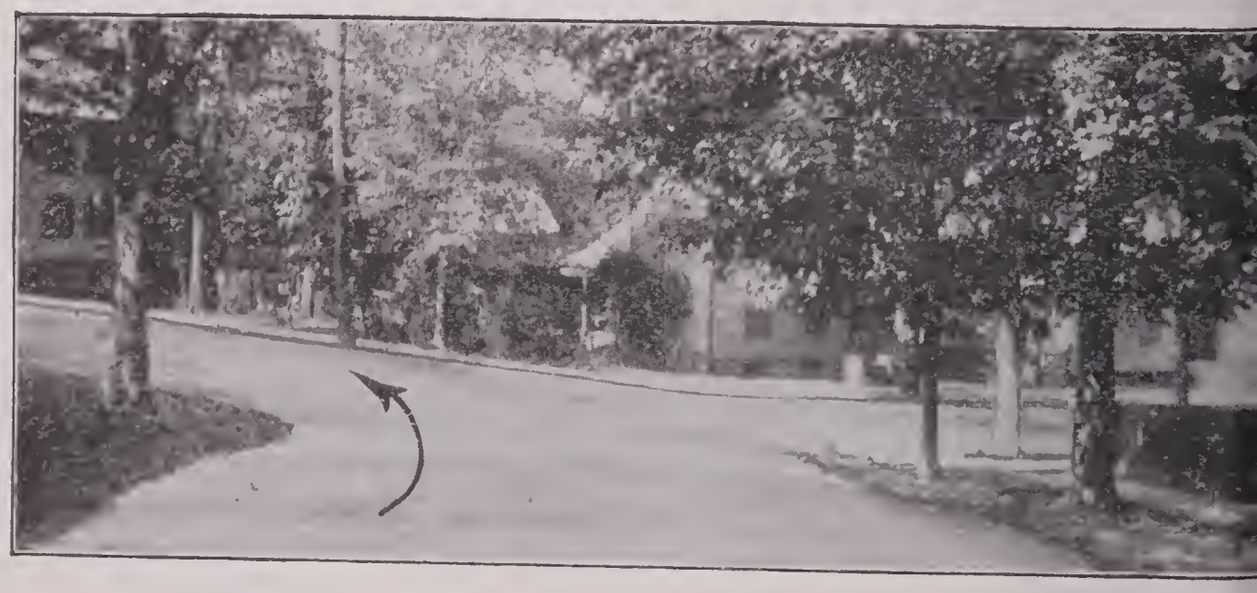
No. 245



Turn LEFT. Next photo at Blue Store, nine and five-tent
miles. For main part of Hudson turn right at this phot

No. 246

BLUE STORE

rn RIGHT at Blue Store. Next photo five and five-enths miles.

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No. 247

rn RIGHT. Follow wires. Upper Red Hook one and hree-tenths miles. Red Hook four miles. Rhinebeck nine and seven-tenths miles. Next photo ten and one-enth miles.

No. 248

Turn LEFT at three corners. Next photo four and o
tenth miles.

Memo .....

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No. 249

Turn RIGHT. Staatsburg one and five-tenths miles. Hy
Park five and six-tenths miles. Next photo in Poughkeeps
eleven and seven-tenths miles.

No. 250

POUGHKEEPSIE

Turn LEFT from Washington Street into Main Street; then right into next street (Market Street). Next photo at fountain, three-tenths of a mile. For the Morgan House and Van's Garage go straight ahead on Main Street after making turn shown in this photograph.

Memo .....

MORGAN HOUSE, POUGHKEEPSIE, N. Y.

The best hotel in the city. Run on both the American and European plan. The only grill room in the city. Everything first-class. Garage just back of hotel.

Memo .....

VAN'S GARAGE

14-20 CATHERINE STREET

Just back of the Morgan House. Storage, supplies, and repairs. Agents for the Thomas, Packard, Pope-Toledo, Stevens-Duryea, Auto-Car and Oldsmobile. Private charging plant.

Memo .....

No. 251

Turn LEFT with car tracks at fountain. Next photo four and seven-tenths miles.

Memo .....

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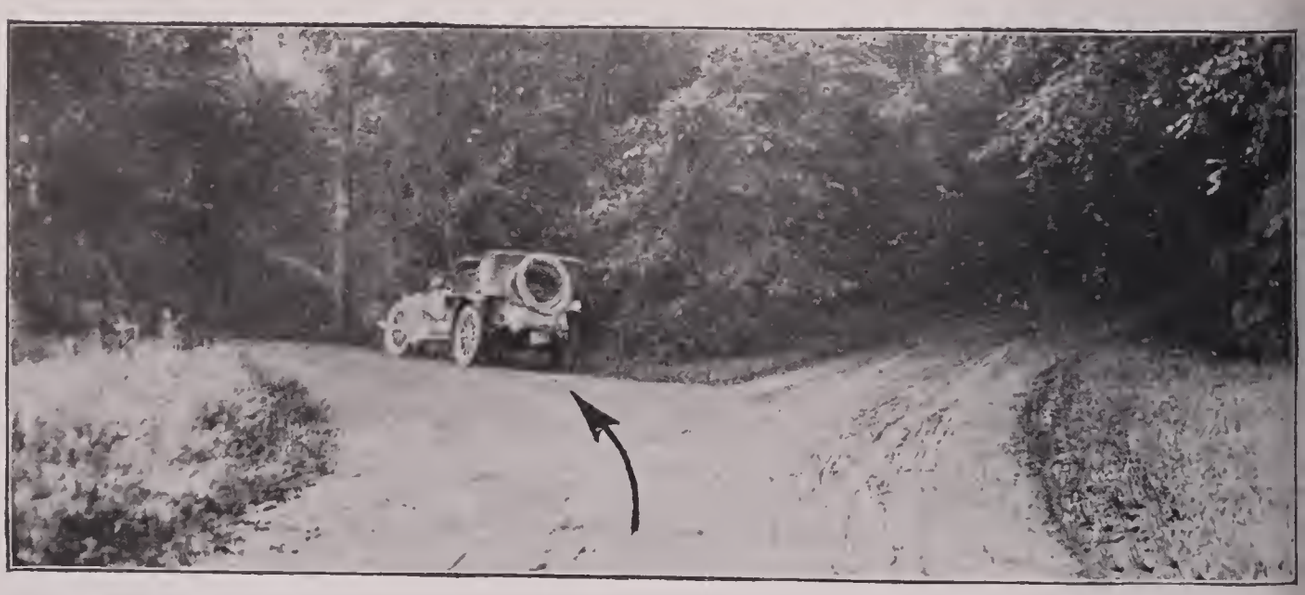
No. 252



Turn LEFT and cross tracks at fork. Next photo in Wappingers Falls, two and six-tenths miles.

No. 253

WAPPINGERS FALLS

ırn LEFT entering Wappingers Falls. Next photo two-tenths of a mile.

emo .....

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No. 254

urn LEFT leaving Wappingers Falls. Next photo two and five-tenths miles.

No. 255

Take LEFT road at fork. Next photo in Fishkill Villag
two and four-tenths miles.

Memo .....

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No. 256

FISHKILL VILLAGE

Turn LEFT at end of road in Fishkill Village. Next photo
two-tenths of a mile.

No. 257

Take RIGHT road at fork leaving Fishkill Village. Next photo five and nine-tenths miles.

Memo .....

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No. 258

Take RIGHT road at fork. Next photo in Cold Spring, three and one-tenth miles.

No. 259

COLD SPRING

Turn LEFT at watering trough in Cold Spring. Next photo two-tenths of a mile.

Memo .....

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No. 260

STRAIGHT AHEAD. Pond on right. Next photo one and seven-tenths miles.

No. 261

ake RIGHT road at fork. Follow iron fence. Next photo two miles.

emo .....

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No. 262

TRAIGHT AHEAD. Road to right goes to Garrison. Take ferry at Garrison for West Point Military Academy. Next photo three-tenths of a mile.

No. 263

Turn sharply to the LEFT at four corners. Next photo o
mile.

Memo .....

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No. 264

Keep to the RIGHT. Follow wires. Next photo two miles

No. 265

'urn LEFT at fork and leave wires. Next photo in Peekskill, four and two-tenths miles.

Memo .....

No. 266

PEEKSKILL

'urn RIGHT with car tracks. John L. Silleck's Garage, the best in Peekskill, on left-hand side of street after making this turn. Supplies and repairs. Next photo two-tenths of a mile.

No. 267

Turn LEFT at branch of car tracks. Next photo one an three-tenths miles.

Memo .....

No. 268

Turn RIGHT with car tracks. Next photo at end of road four-tenths of a mile.

No. 269

urn LEFT with car tracks. Next photo in Buchanan six-tenths of a mile.

emo .....

No. 270

BUCHANAN

urn LEFT with car tracks. Next photo two and four-tenths miles.

No. 271

Turn RIGHT at three corners. Next photo five-tenths of mile.

Memo .....

No. 272

Turn RIGHT and cross small bridge. Next photo one and seven-tenths miles.

No. 273

urn RIGHT at fork. Croton seven-tenths of a mile. Next photo two miles.

emo .....

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No. 274

urn RIGHT at end of road. Schoolhouse on right. Next photo in Ossining two and four-tenths miles.

No. 275

OSSINING

Take LEFT street at fork in Ossining. Tarrytown six a
one-tenth miles. Irvington nine and two-tenths mil
Next photo in Dobbs Ferry ten and four-tenths miles.

Memo .....

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No. 276

DOBBS FERRY

Turn RIGHT. Church on right. Next photo in Hastin
one and five-tenths miles.

No. 279

NEW YORK CITY

Turn RIGHT from 230th Street into Broadway. Next photo one and three-tenths miles.

Memo .....

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No. 280

Turn RIGHT from Broadway into Riverside Drive (Lafayette Boulevard). Follow drive to 158th Street two and three-tenths miles. Turn sharply to the right just after drive leaves the river and continue on Riverside Drive to next photo, seven and three-tenths miles.

No. 277

HASTINGS

Turn RIGHT entering Hastings. Yonkers four and four-tenths miles. Next photo 230th Street, New York City, eight and four-tenths miles.

Memo .....

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No. 278

Turn LEFT at 230th Street and cross bridge. Next photo four-tenths of a mile.

No. 281

rn LEFT at end of Riverside Drive. Next photo at Broadway, two blocks.

mo .....

No. 282

72ND STREET AND BROADWAY

rn RIGHT from 72nd Street into Broadway. Next photo, 58th Street, seven-tenths of a mile.

No. 283

BROADWAY AND 58TH STREET

Turn RIGHT around circle to continuation of Broadw (marked with star). Entrance to Central Park on le Next photo at Broadway and 42nd Street, six-tenths o mile.

Memo .....

No. 284

BROADWAY AND 42ND STREET

Continue SOUTH on Broadway. Next photo at Broadw and 31st Street, eight-tenths of a mile.

No. 285

BROADWAY AND 31st STREET

urn LEFT from Broadway into 31st Street, Hotel Wolcott one block on the right.

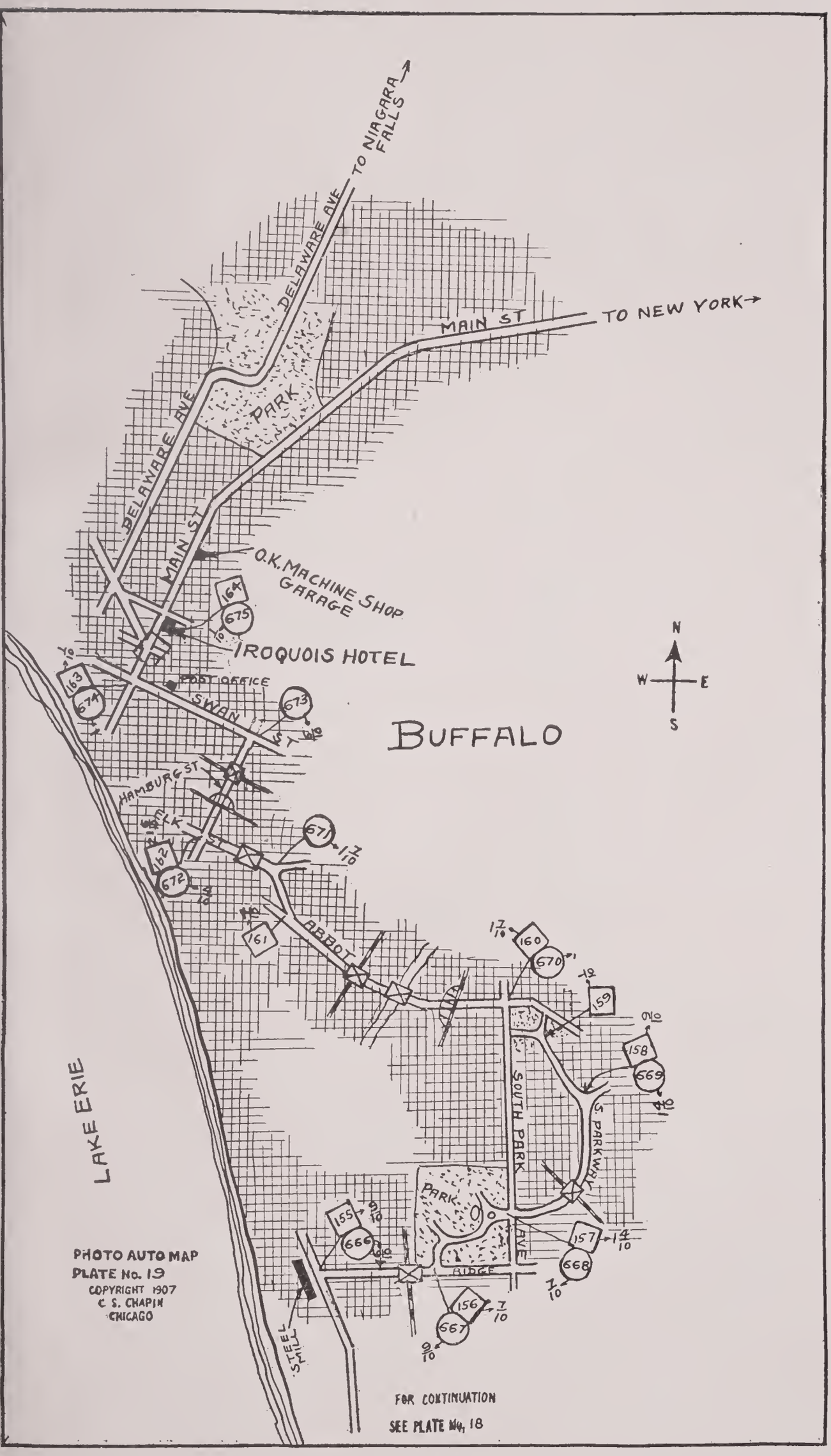
emo

No. 286

HOTEL WOLCOTT

31st STREET AND 5th AVENUE

FINISHING POINT for run from Albany to New York. I is a matter of much pride and gratification to Mr. Bresli that his business has always been derived entirely fron people of culture, which gave to his establishments a atmosphere of class not to be found in the ordinary hotel and as it is and always has been a difficult problem fo people of refinement to find a quiet, comfortable house it is evident that the Wolcott, combining all these advan tages in addition to its unsurpassed location and the char acter of the patrons, will make it an ideal home for eithe the New Yorker or the transient visitor in the city.



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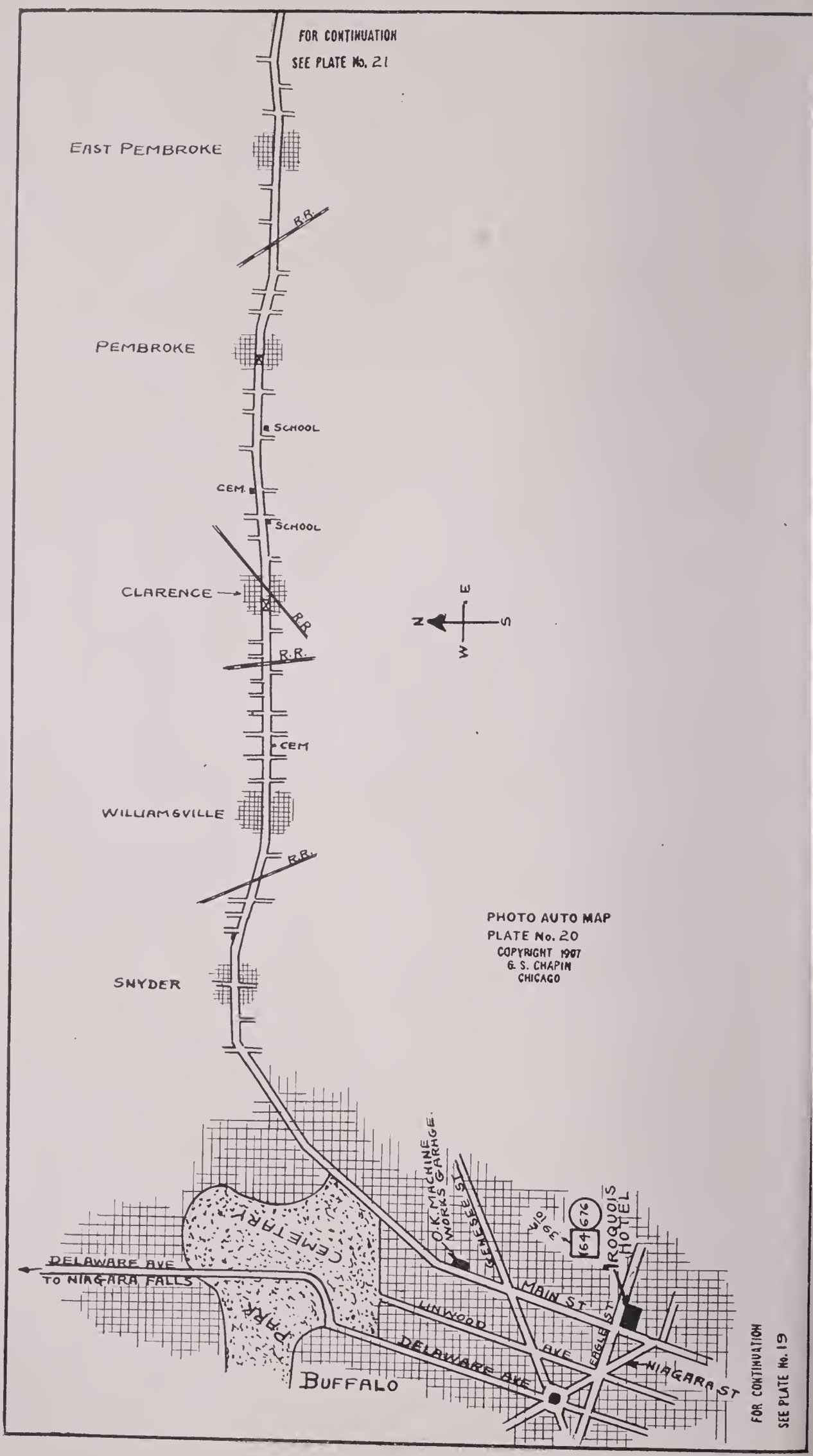
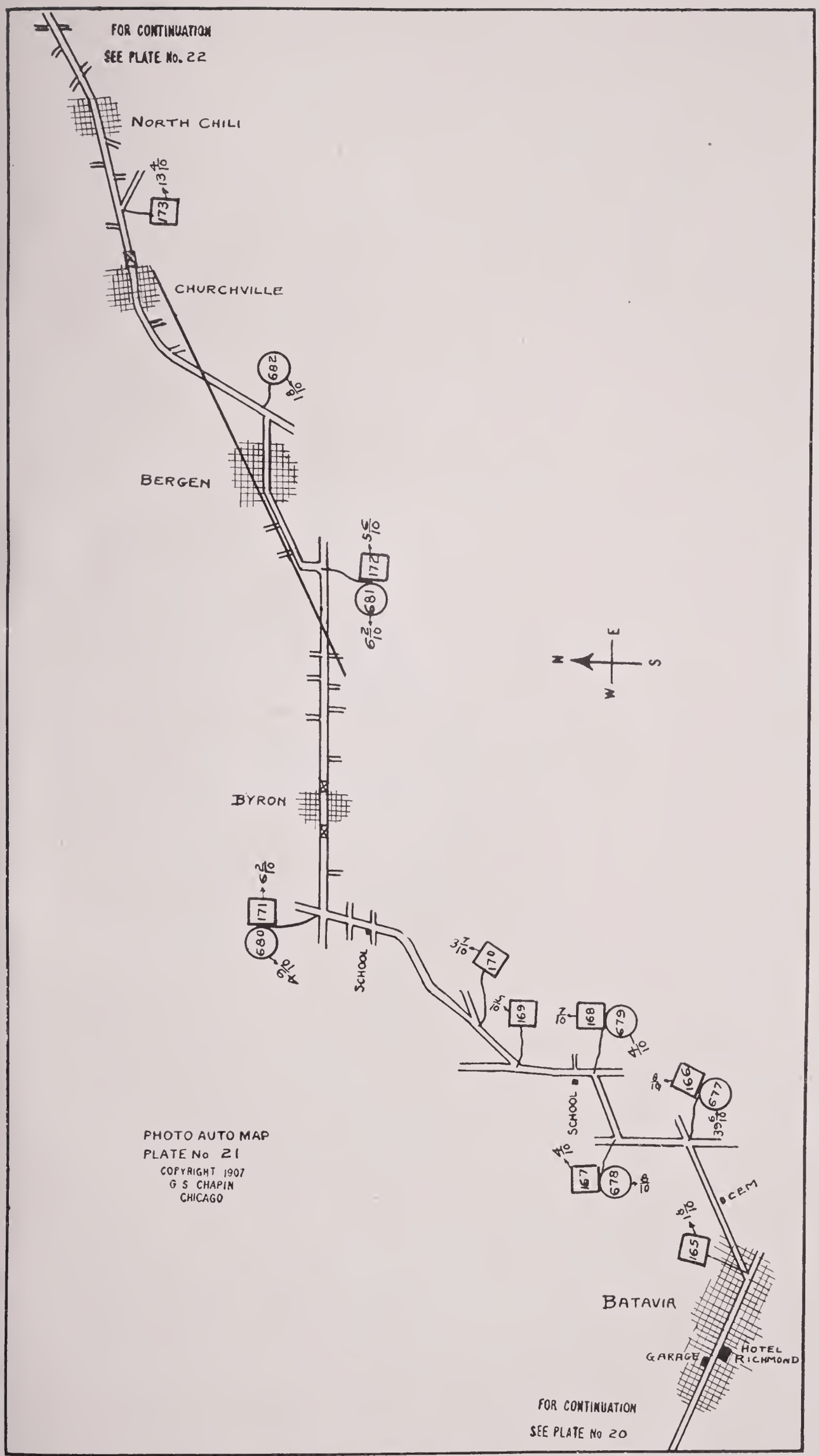
C. S. CHAPIN
CHICAGO


FOR CONTINUATION
SEE PLATE No. 21
EAST PEMBROKE
R.R.
PEMBROKE
SCHOOL
CEM.
SCHOOL
CLARENCE
R.R.
R.R.
CEM
WILLIAMSVILLE
R.R.
SNYDER
N
E
S
W
PHOTO AUTO MAP
PLATE No. 20
COPYRIGHT 1907
G. S. CHAPIN
CHICAGO
O.K. MACHINE WORKS GARAGE
GENESEE ST
MAIN ST
IROQUOIS HOTEL
EAGLE ST
NIAGARA ST
LINWOOD AVE
DELAWARE AVE
CEMETARY
PARK
DELAWARE AVE
TO NIAGARA FALLS
BUFFALO
FOR CONTINUATION
SEE PLATE No. 19



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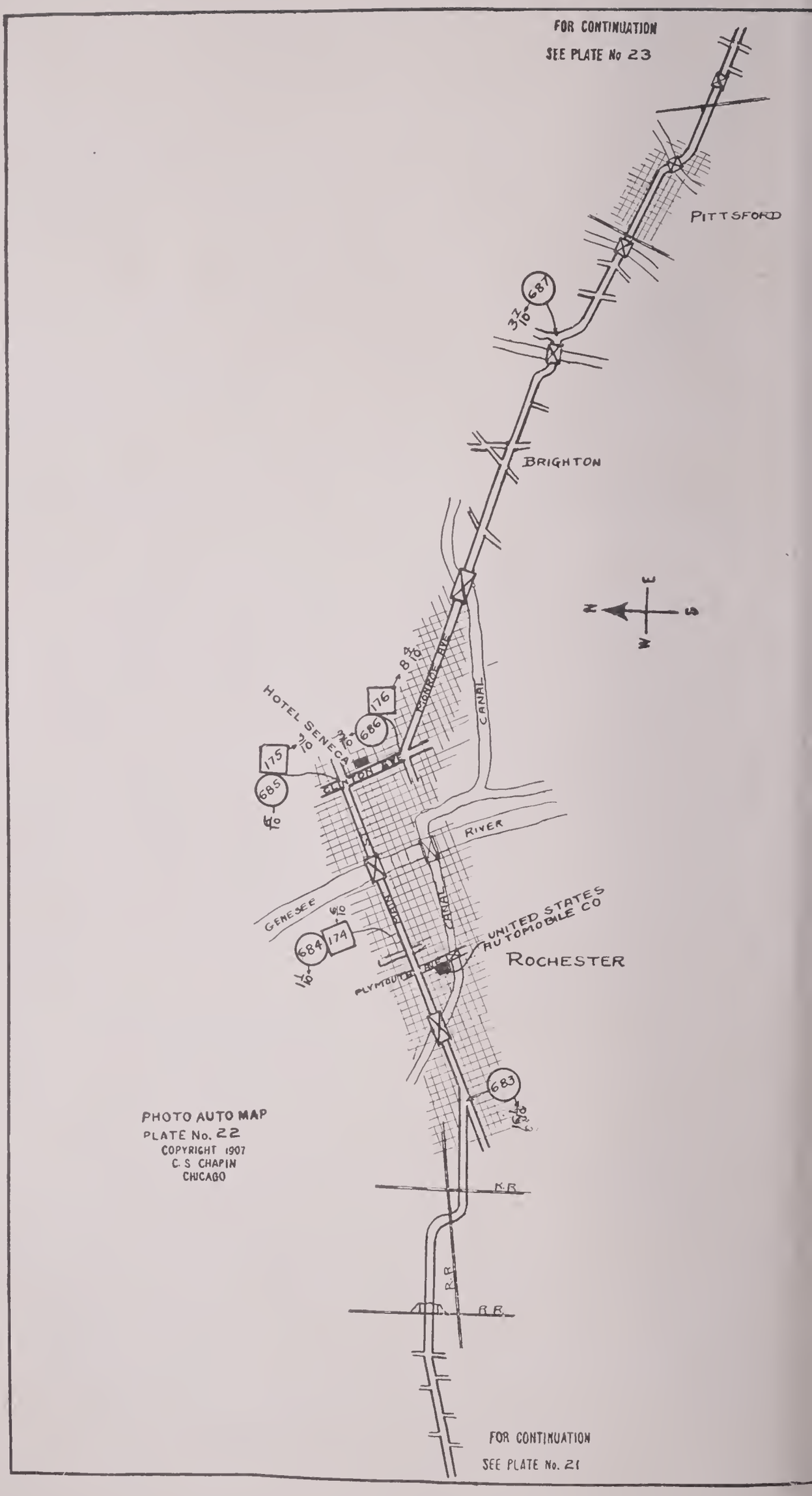

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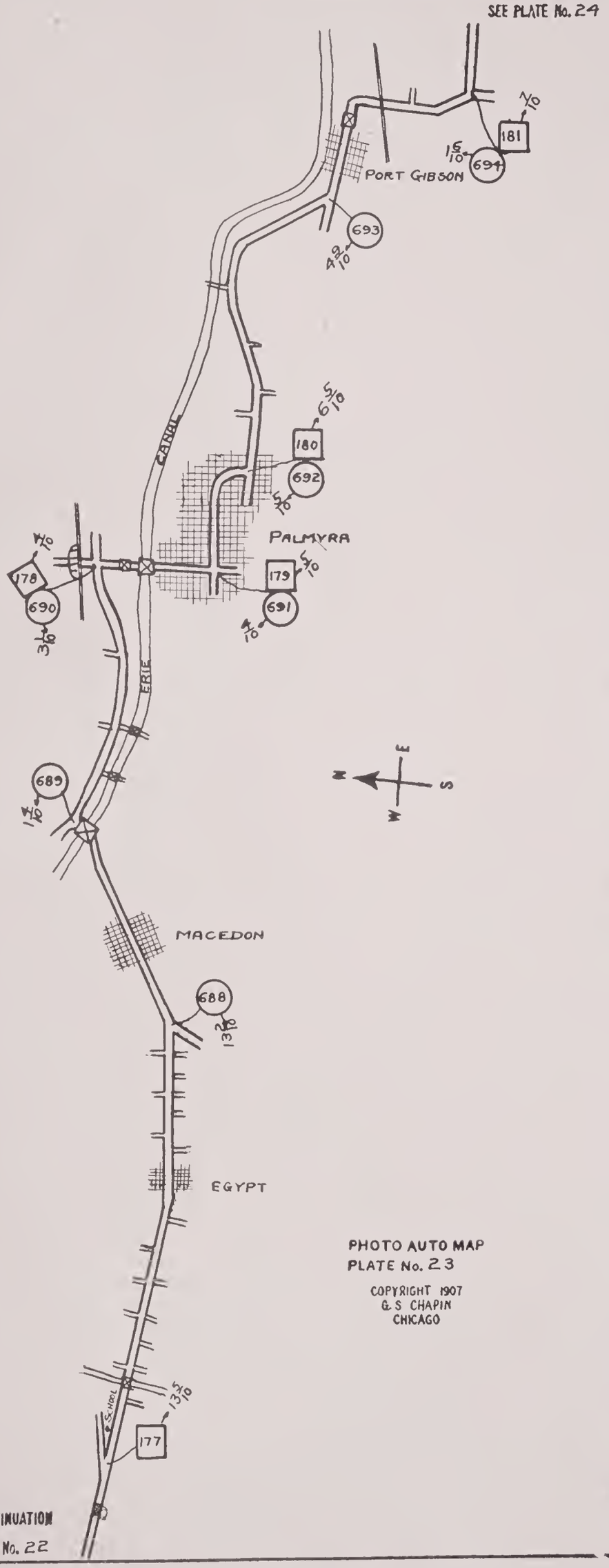

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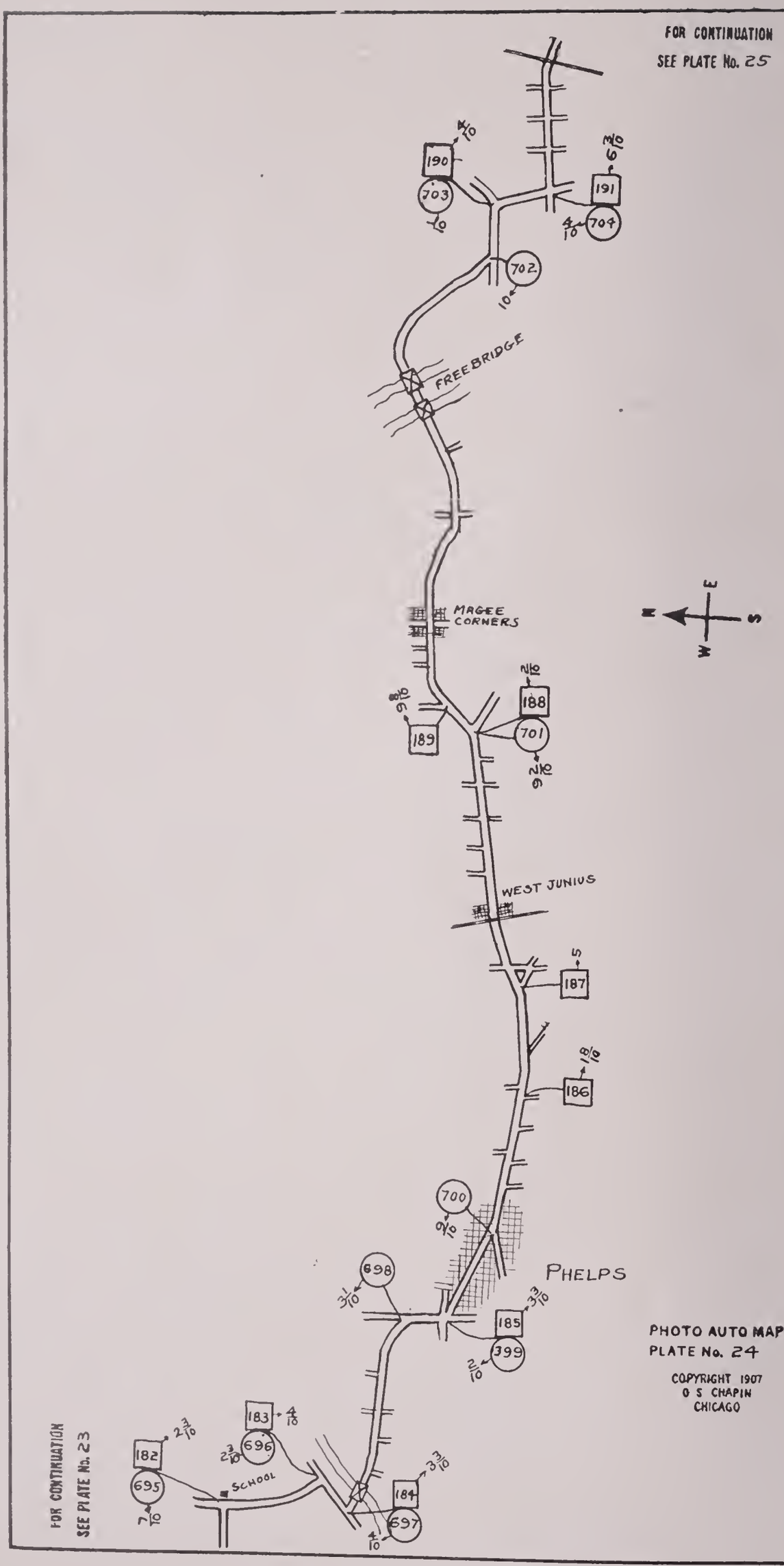

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PLATE No. 24

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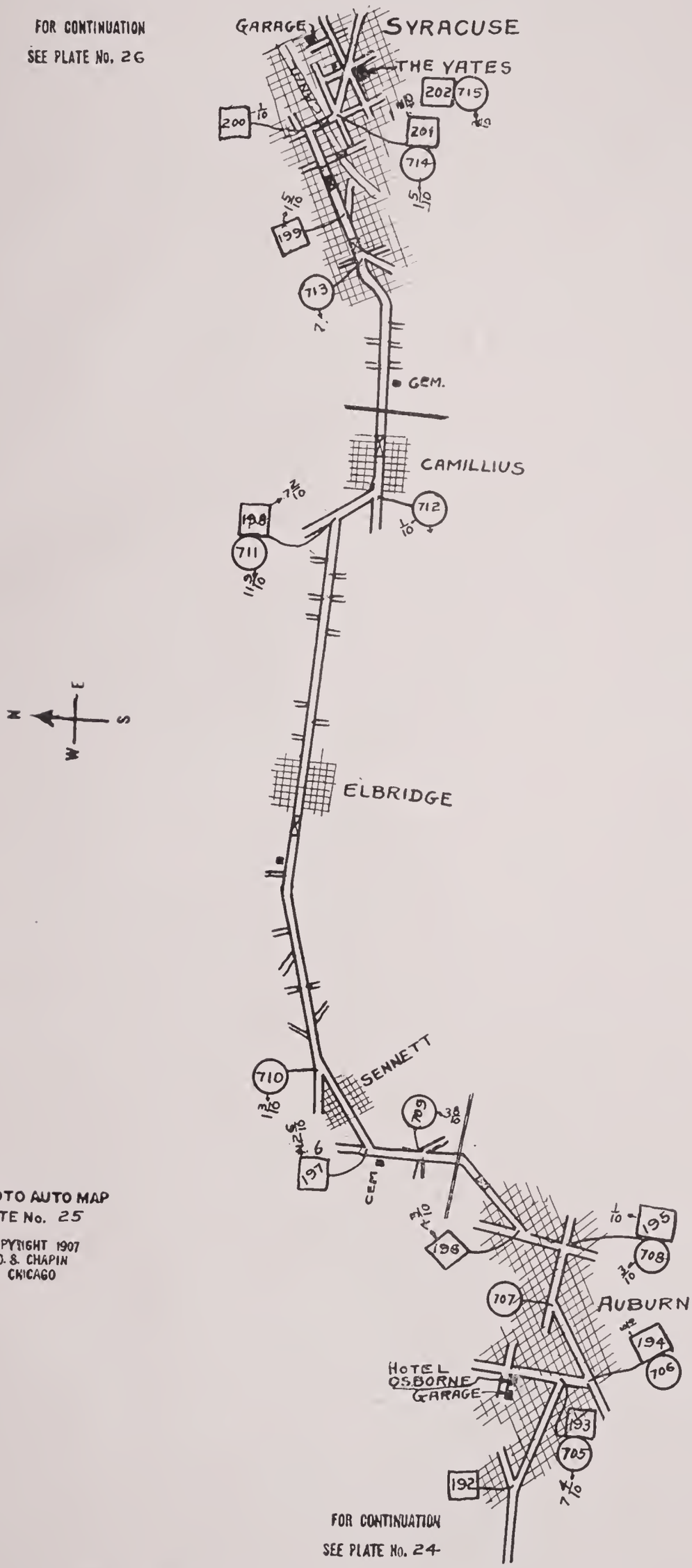

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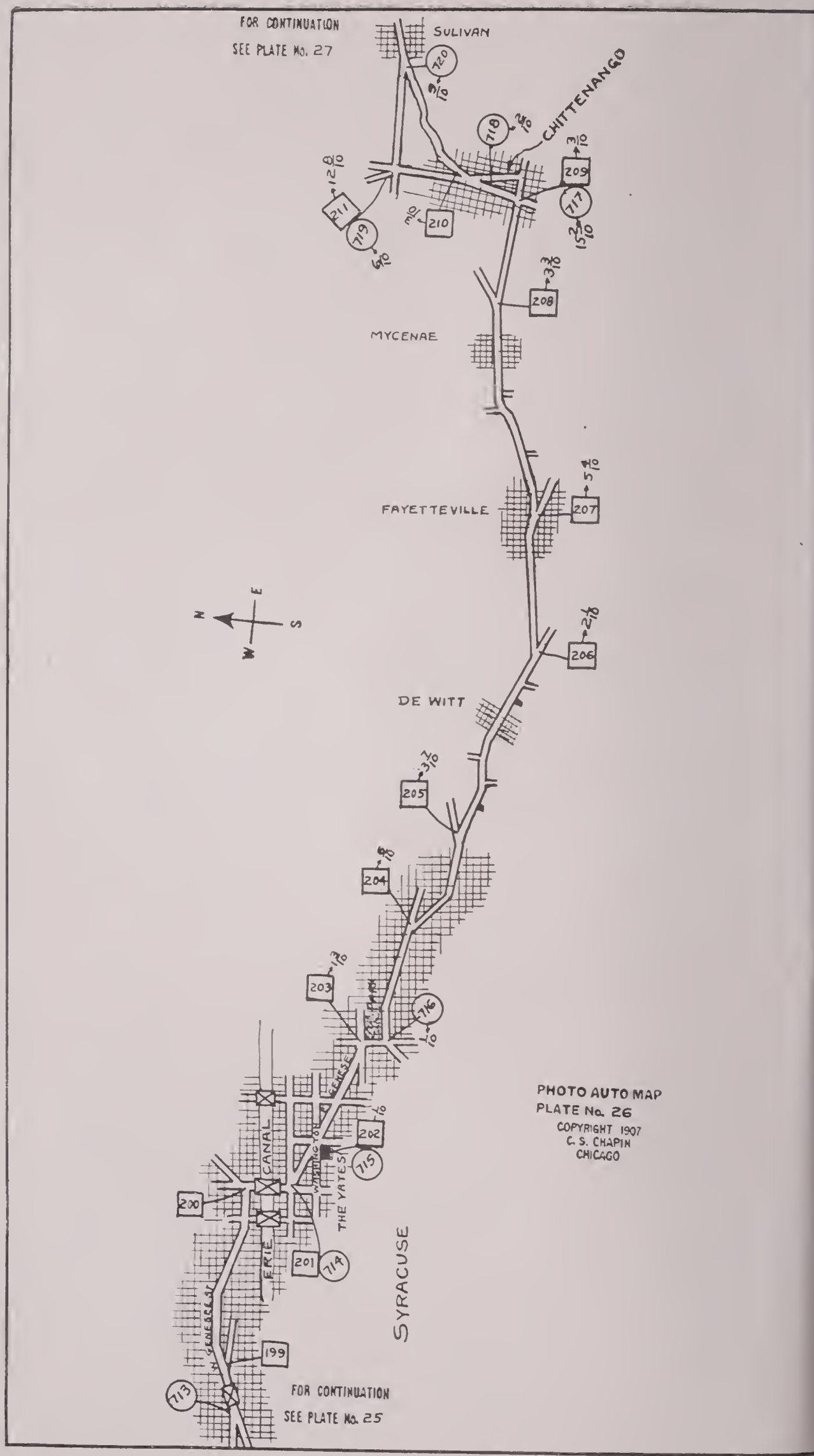
FOR CONTINUATION
SEE PLATE No. 27
SULIVAN
CHITTENANGO
MYCENAE
FAYETTEVILLE
DE WITT
SYRACUSE
CANAL
ERIE
THE YATES
FOR CONTINUATION
SEE PLATE No. 25
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W
PHOTO AUTO MAP
PLATE No. 26
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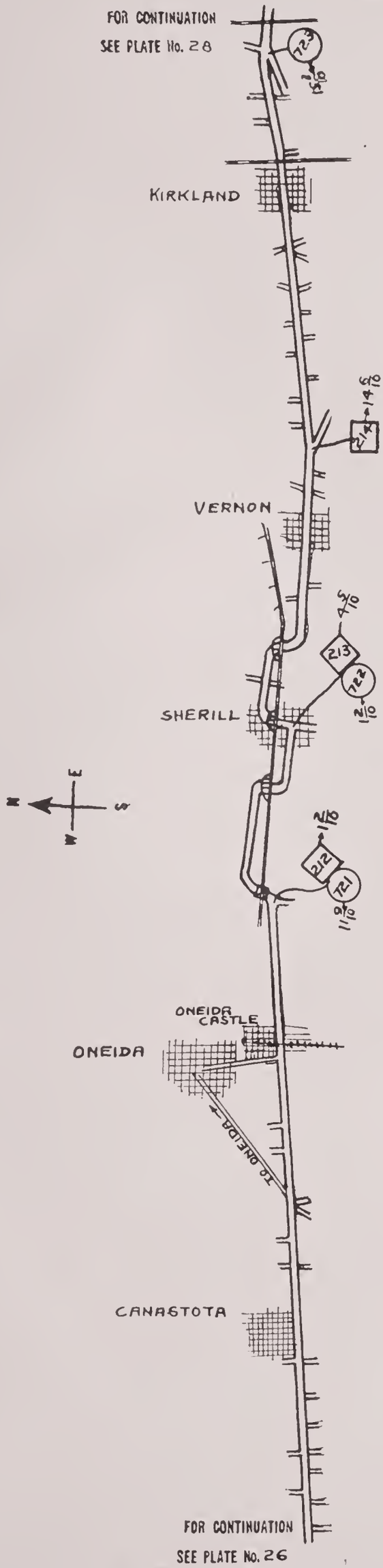

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PLATE No. 27
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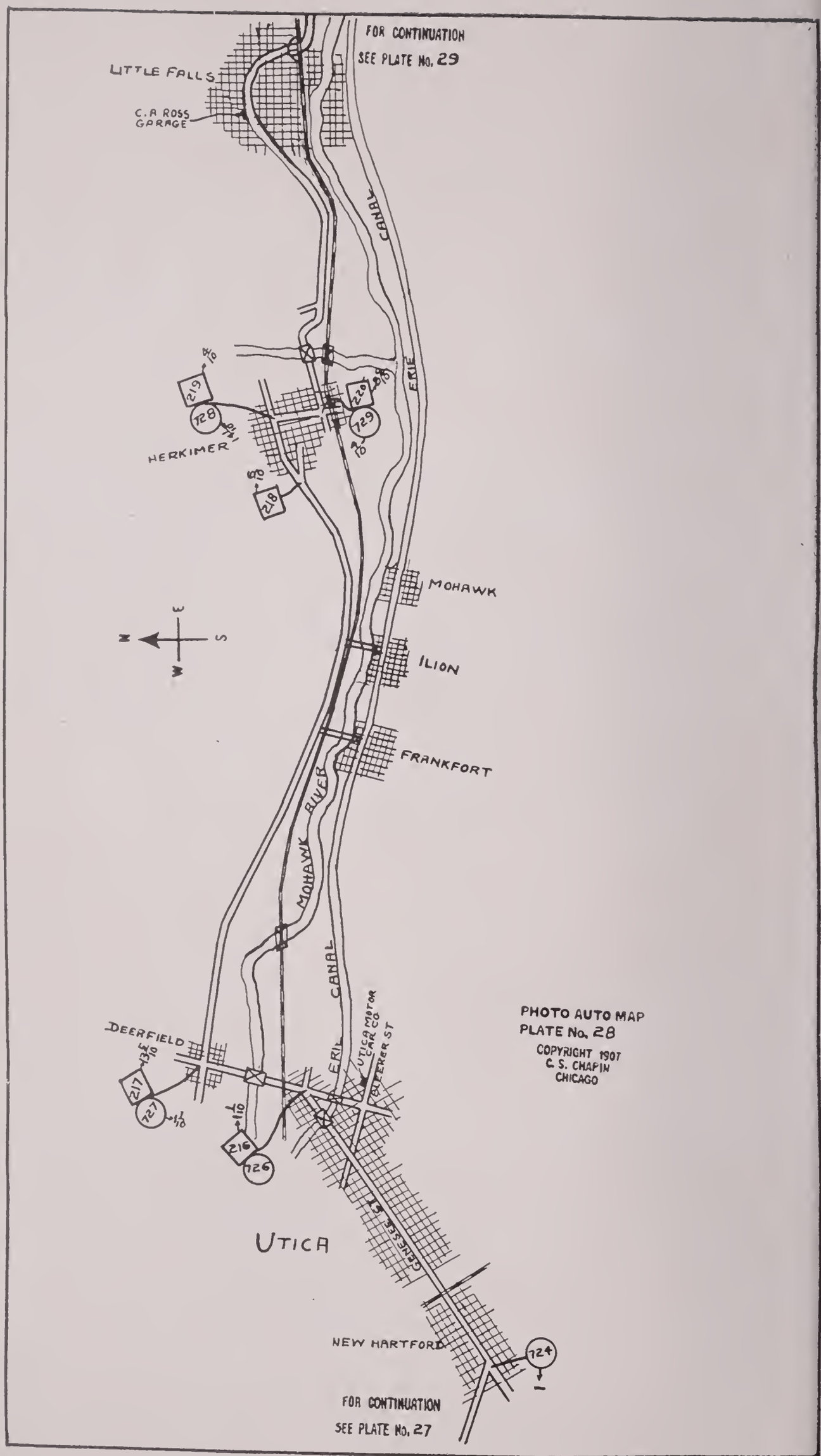
FOR CONTINUATION
SEE PLATE No. 29
LITTLE FALLS
C.A ROSS GARAGE
ERIE CANAL
HERKIMER
MOHAWK
ILION
FRANKFORT
MOHAWK RIVER
ERIE CANAL
DEERFIELD
UTICA MOTOR CAR CO
BLEECKER ST
GENESEE ST
UTICA
NEW HARTFORD
FOR CONTINUATION
SEE PLATE No. 27
PHOTO AUTO MAP
PLATE No. 28
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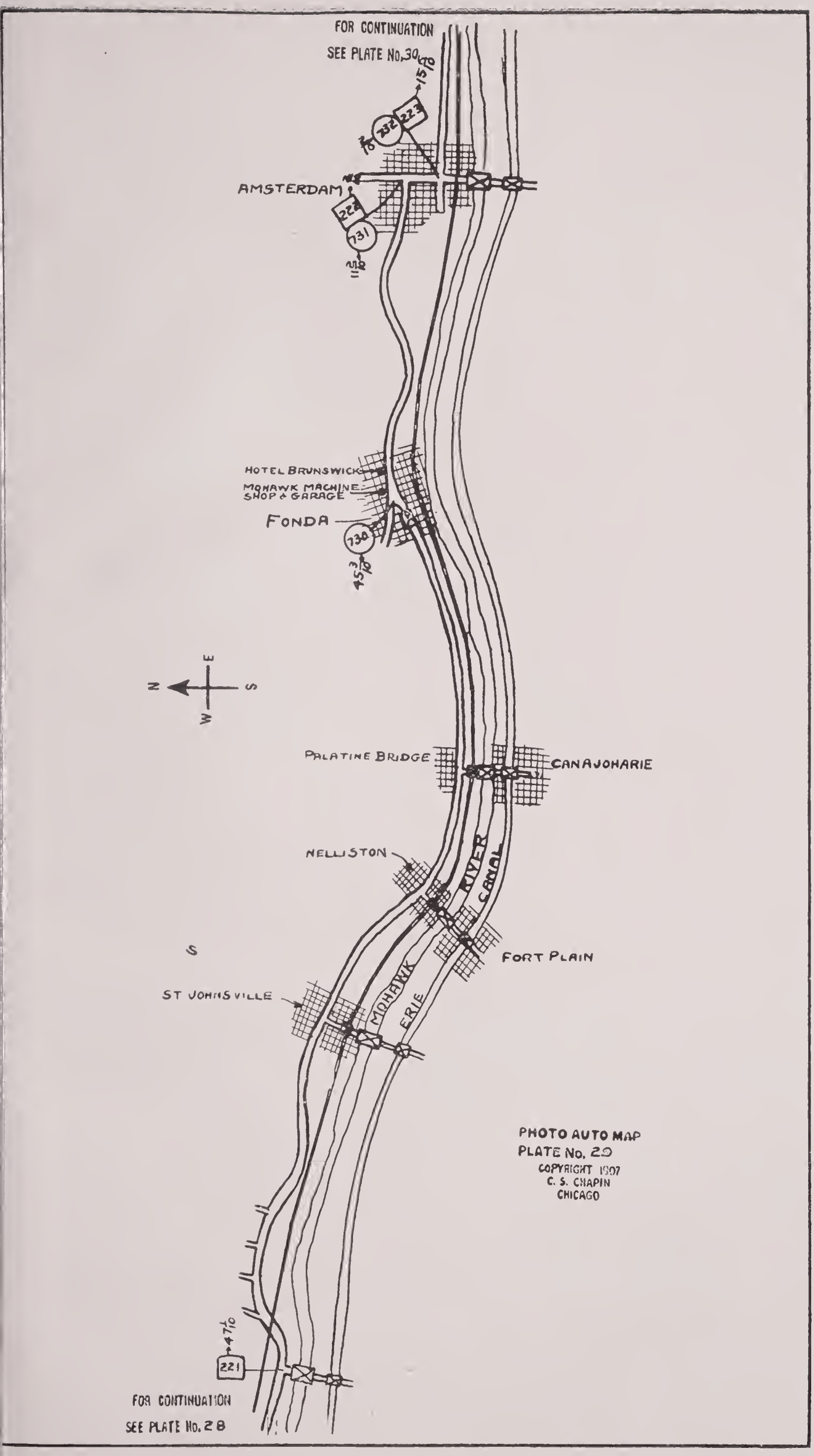
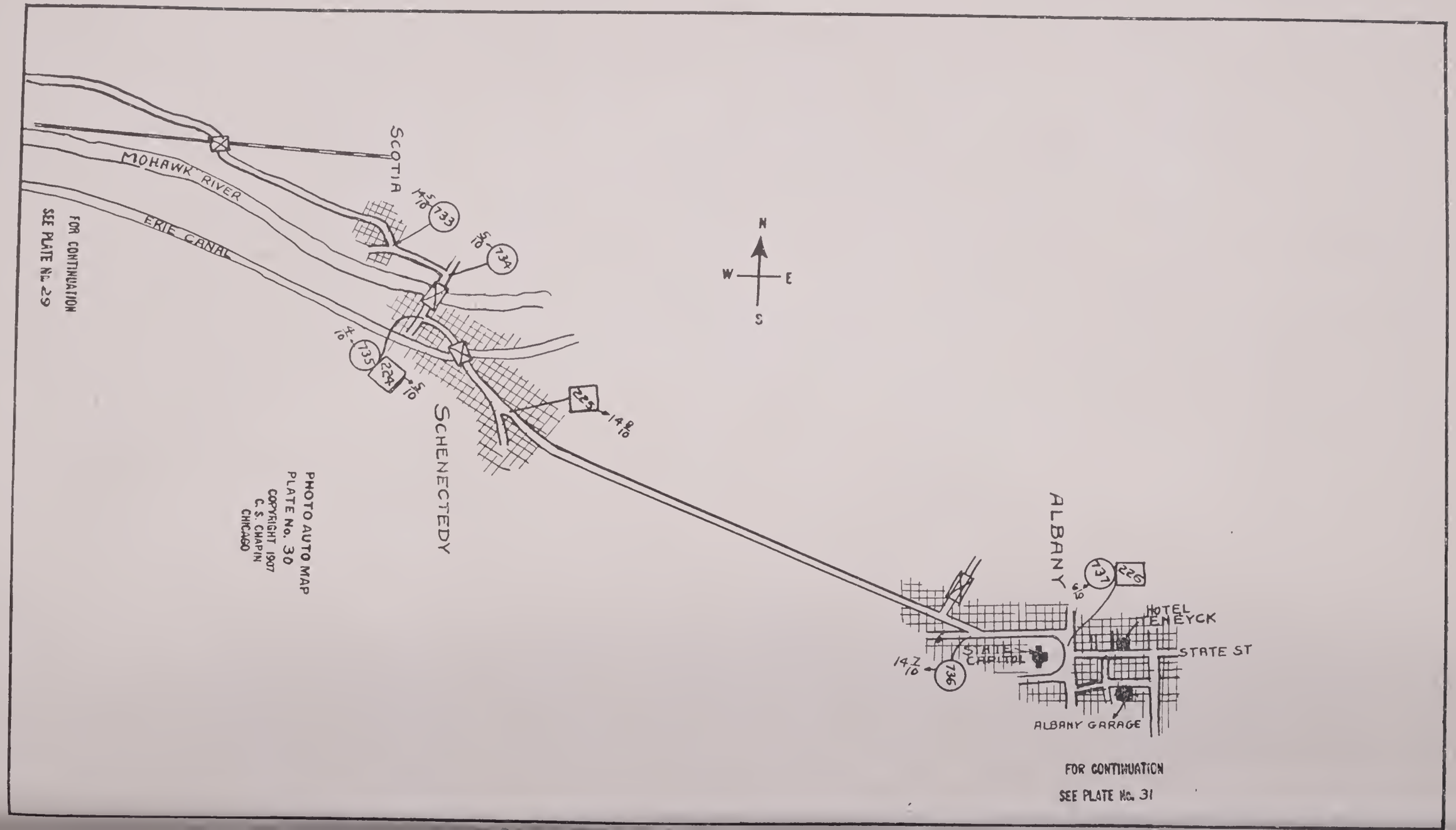

FOR CONTINUATION
SEE PLATE No. 30
15 1/10
223
232
AMSTERDAM
224
231
11 2/10
HOTEL BRUNSWICK
MOHAWK MACHINE SHOP & GARAGE
FONDA
230
45 3/10
N
E
S
W
PALATINE BRIDGE
CANAJOHARIE
NELLISTON
RIVER
CANAL
FORT PLAIN
S
ST JOHNSVILLE
MOHAWK
ERIE
PHOTO AUTO MAP
PLATE No. 29
COPYRIGHT 1907
C. S. CHAPIN
CHICAGO
4 7/10
221
FOR CONTINUATION
SEE PLATE No. 28


MOHAWK RIVER
ERIE CANAL
SCOTIA
SCHENECTEDY
ALBANY
STATE CAPITOL
HOTEL TENEYCK
STATE ST
ALBANY GARAGE
N
W
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S
733
734
735
736
737
224
225
226
FOR CONTINUATION SEE PLATE No. 29
FOR CONTINUATION SEE PLATE No. 31
PHOTO AUTO MAP
PLATE No. 30
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FOR CONTINUATION
SEE PLATE No. 30
ALBANY
STATE CAPITOL
THE TEN EYCK
STATE ST
CARRIAGE
HUDSON RIVER
EAST GREENBUSH
SCHODACK CENTER
SCHOOL
CEM.
C&M.
N
W
E
S
PHOTO AUTO MAP
PLATE No. 31
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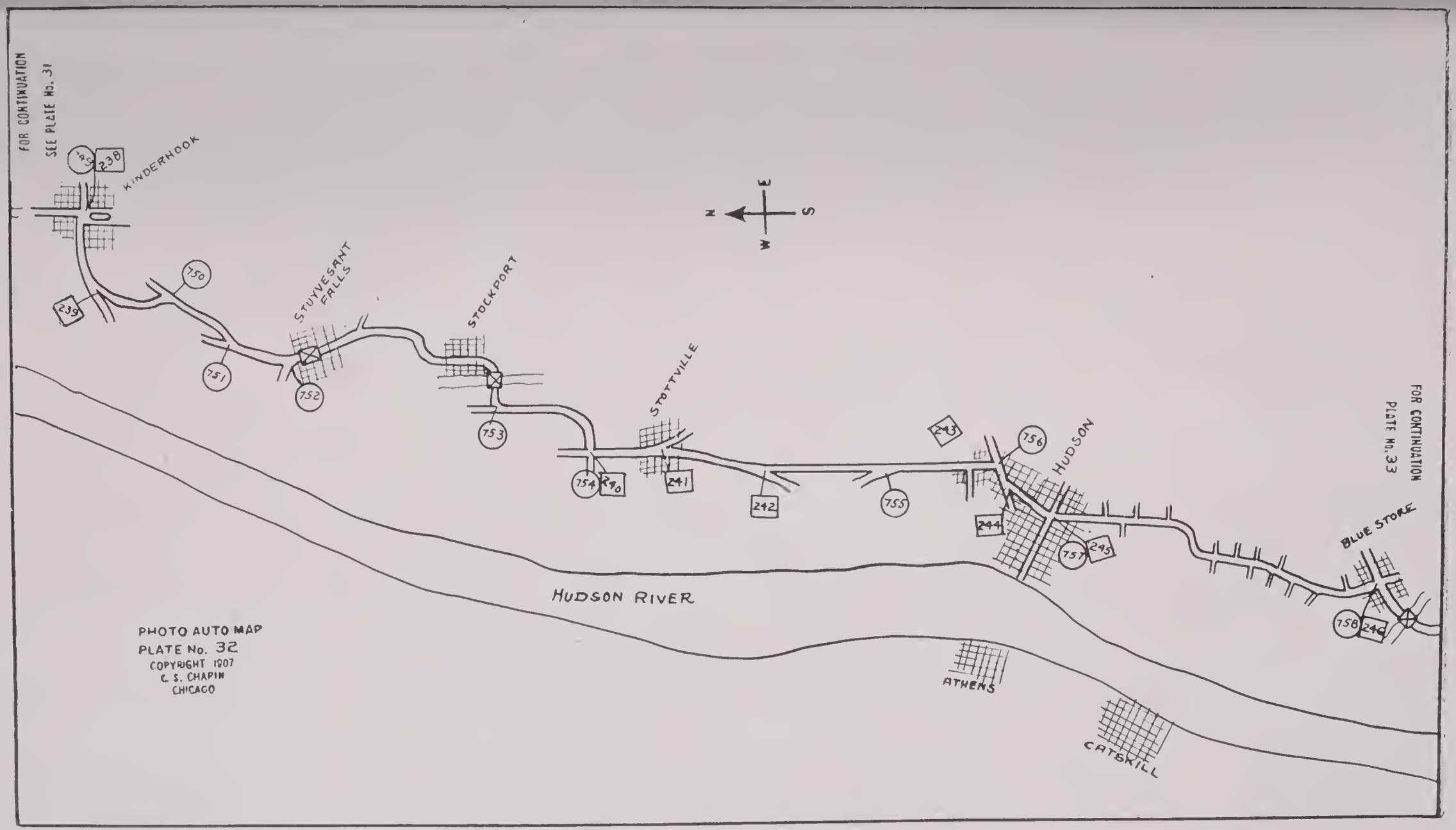
CHICAGO
FOR CONTINUATION
SEE PLATE No. 32


FOR CONTINUATION
SEE PLATE No. 31
KINDERHOOK
238
239
750
751
752
STUYVESANT FALLS
STOCKPORT
753
754
240
STATTVILLE
241
242
755
243
244
756
HUDSON
757
245
BLUE STORE
758
246
FOR CONTINUATION
PLATE No. 33
HUDSON RIVER
ATHENS
CATSKILL
N
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S
W
PHOTO AUTO MAP
PLATE No. 32
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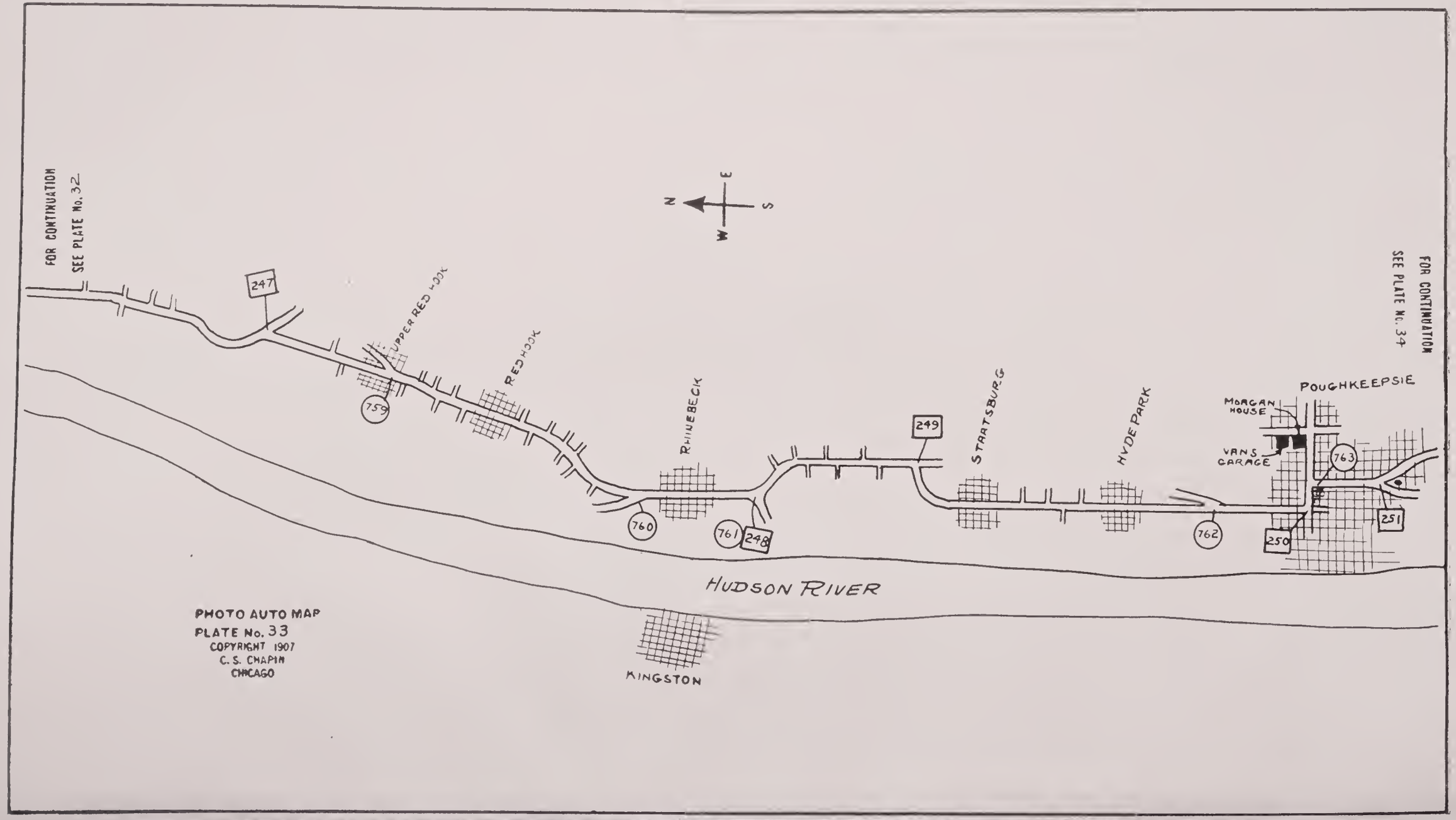
FOR CONTINUATION
SEE PLATE No. 32
N
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W
247
UPPER RED HOOK
RED HOOK
759
RHINEBECK
760
761
248
249
STAATSBURG
HYDE PARK
762
POUGHKEEPSIE
MORGAN HOUSE
VANS GARAGE
763
250
251
FOR CONTINUATION
SEE PLATE No. 34
HUDSON RIVER
KINGSTON
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PLATE No. 33
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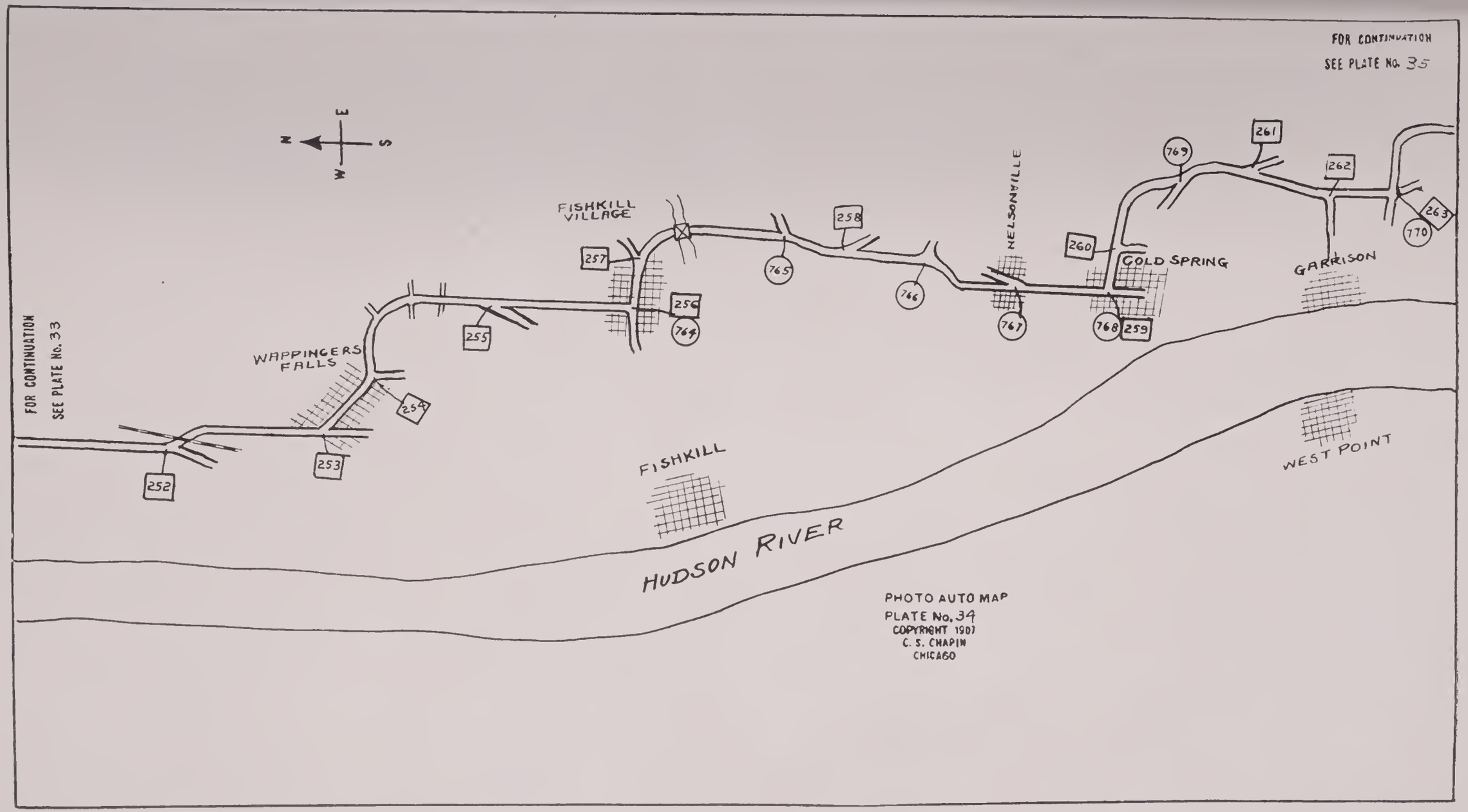

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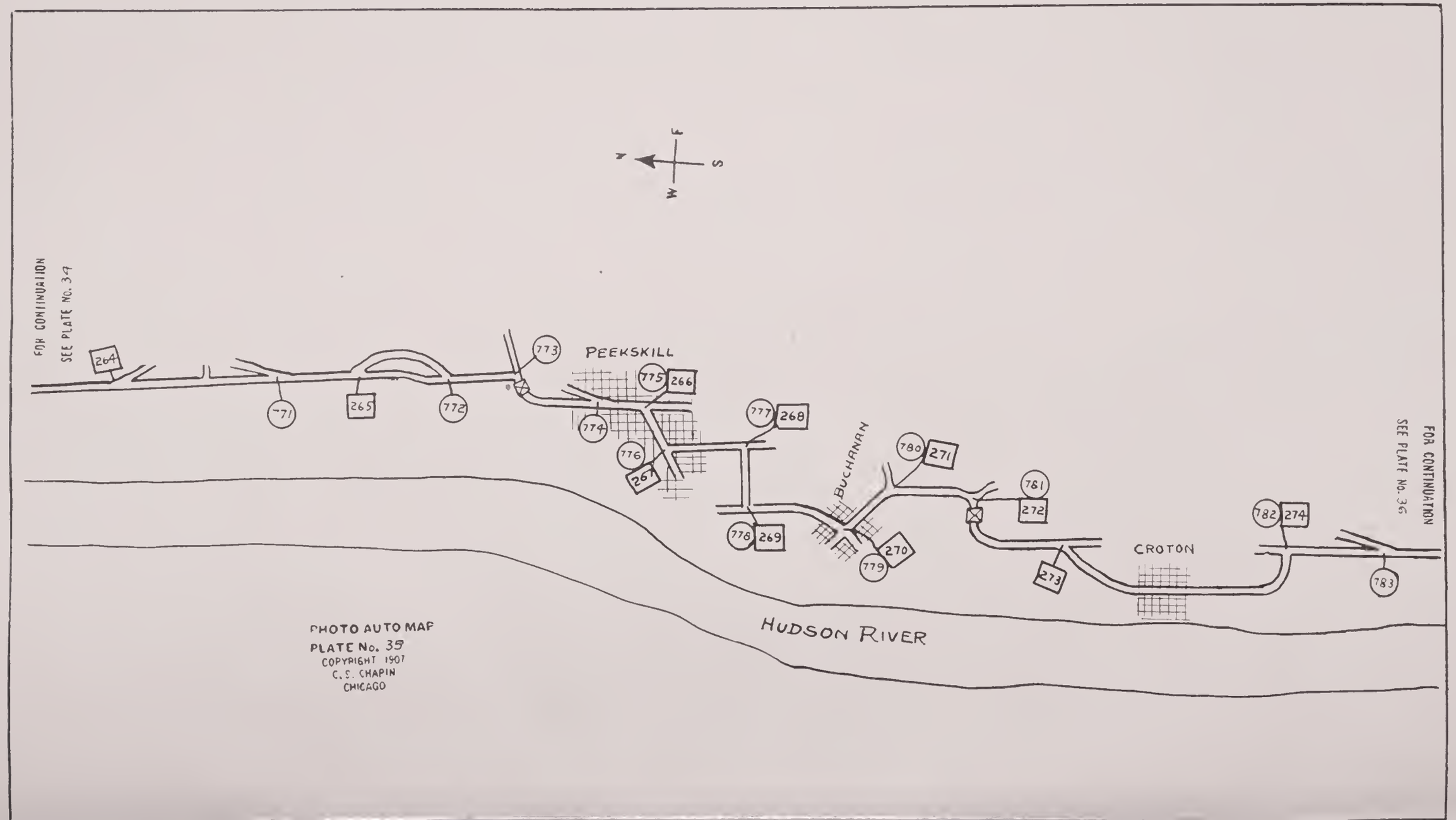
FOR CONTINUATION
SEE PLATE No. 34
264
771
265
772
773
PEEKSKILL
775
266
774
776
267
777
268
778
269
BUCHANAN
780
271
779
270
781
272
273
CROTON
782
274
783
FOR CONTINUATION
SEE PLATE No. 36
HUDSON RIVER
N
S
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W
PHOTO AUTO MAP
PLATE No. 35
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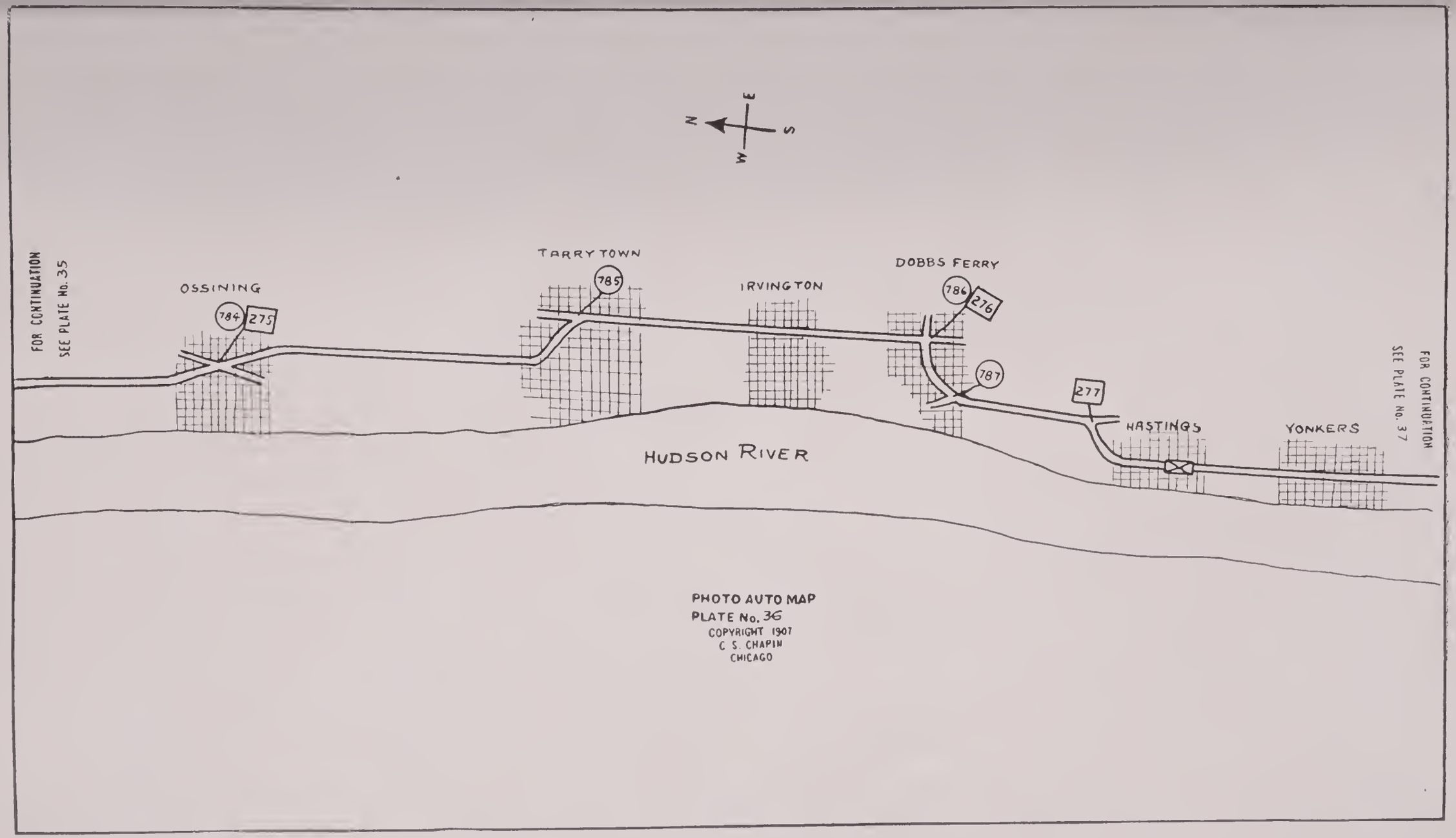

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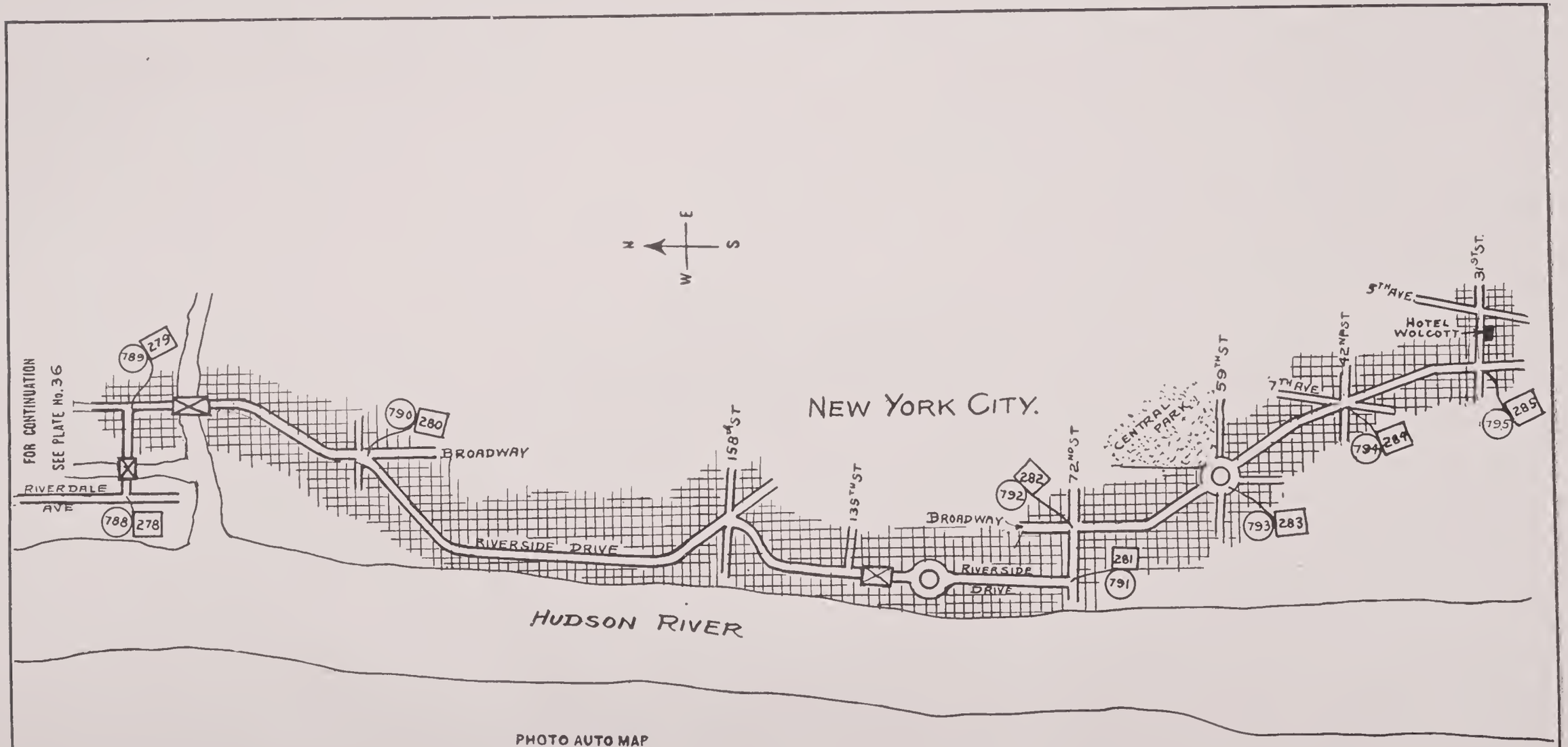

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PHOTO-AUTO MAPS

New York to Buffalo

No. 796

HOTEL WOLCOTT

31st STREET AND 5th AVENUE

STARTING POINT for run from New York to Albany.

It is a matter of much pride and gratification to Mr. Breslin that his business has always been derived entirely from people of culture, which gave to his establishments an atmosphere of class not to be found in the ordinary hotel, and as it is and always has been a difficult problem for people of refinement to find a quiet, comfortable house, it is evident that the Wolcott, combining all these advantages in addition to its unsurpassed location and the character of its patrons, will make it an ideal home for either the New Yorker or the transient visitor to the city.

Leave the Wolcott on the LEFT and go West on 31st Street to Broadway (photo No. 795).

No. 795

31st STREET AND BROADWAY

urn RIGHT from 31st Street into Broadway. Next photo Broadway and 42nd Street, eight-tenths of a mile.

Memo .....

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No. 794

BROADWAY AND 42nd STREET

Continue NORTH on Broadway. Next photo Broadway and 58th Street, six-tenths of a mile.

No. 793

BROADWAY AND 58TH STREET

Turn RIGHT around circle and continue North on Broadway Entrance to Central Park on right. Next photo at Broadway and 72nd Street, seven-tenths of a mile.

Memo .....

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No. 792

BROADWAY AND 72ND STREET

Turn LEFT from Broadway into 72nd Street. Pass building marked with star on right. Next photo two blocks.

No. 791

72nd STREET AND RIVERSIDE DRIVE

'urn RIGHT from 72nd Street into Riverside Drive, follow Drive to 145th Street, turn sharp to right one block to Broadway, then turn left to 158th Street, from 158th Street turn left to Lafayette Boulevard to next photo, seven and three-tenths miles from this photo.

Iemo.....

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No. 790

Turn LEFT from Lafayette Boulevard into Broadway. Next photo one and three-tenths miles.

No. 789

BROADWAY AND 230TH STREET

Turn LEFT from Broadway into 230th Street. Next pho
at end of street, four-tenths of a mile.

Memo .....

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No. 788

Turn RIGHT at end of street. Yonkers four miles. Has
ings eight and four-tenths miles. Next photo in Dob
Ferry, nine and two-tenths miles.

No. 787

DOBBS FERRY

TRAIGHT AHEAD in Dobbs Ferry. Next photo seven-tenths of a mile.

Iemo .....

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No. 786

Turn LEFT. Church on left. Irvington one and eight-tenths miles. Next photo in Tarrytown, four and eight-tenths miles.

No. 785

TARRYTOWN

Turn LEFT and down hill at fork in Tarrytown. Next photo in Ossining, five and five-tenths miles.

Memo .....

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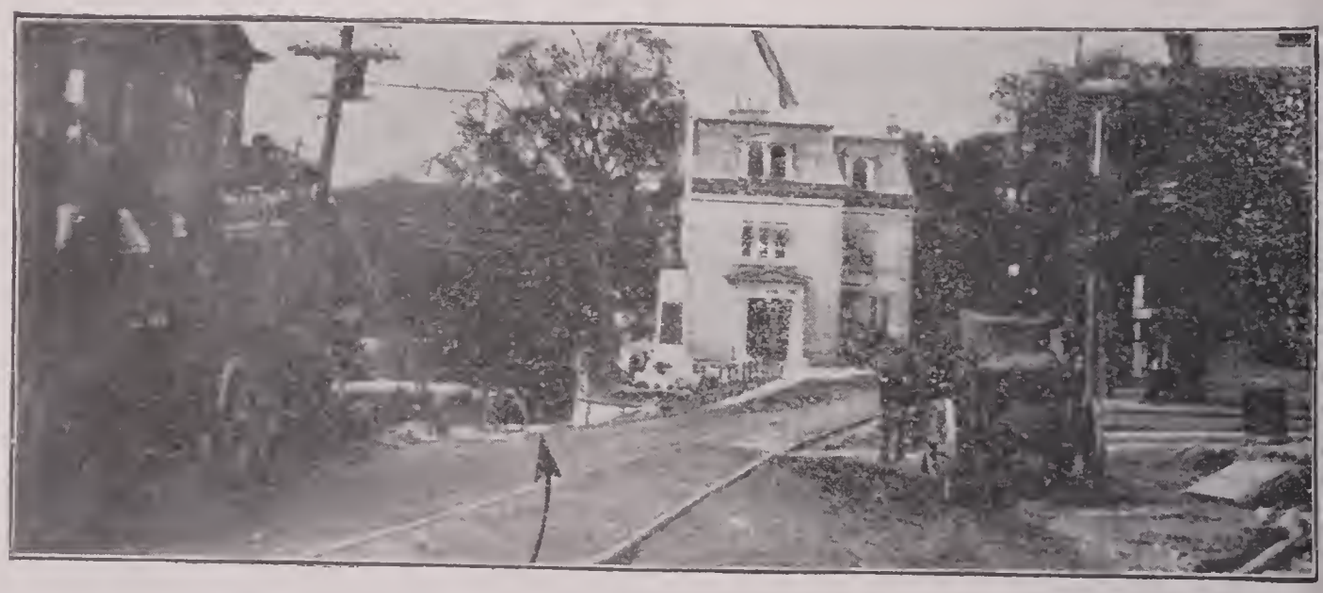
No. 784



OSSINING

Take LEFT fork and go down hill. Next photo six-tenths of a mile.

No. 783

Take LEFT road at fork. Next photo one and eight-tenths miles.

Memo .....

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No. 782

Turn LEFT. Schoolhouse on left. Croton one and three-tenths miles. Next photo three and seven-tenths miles.

No. 781

Turn LEFT after crossing small bridge. Next photo fi
tenths of a mile.

Memo .....

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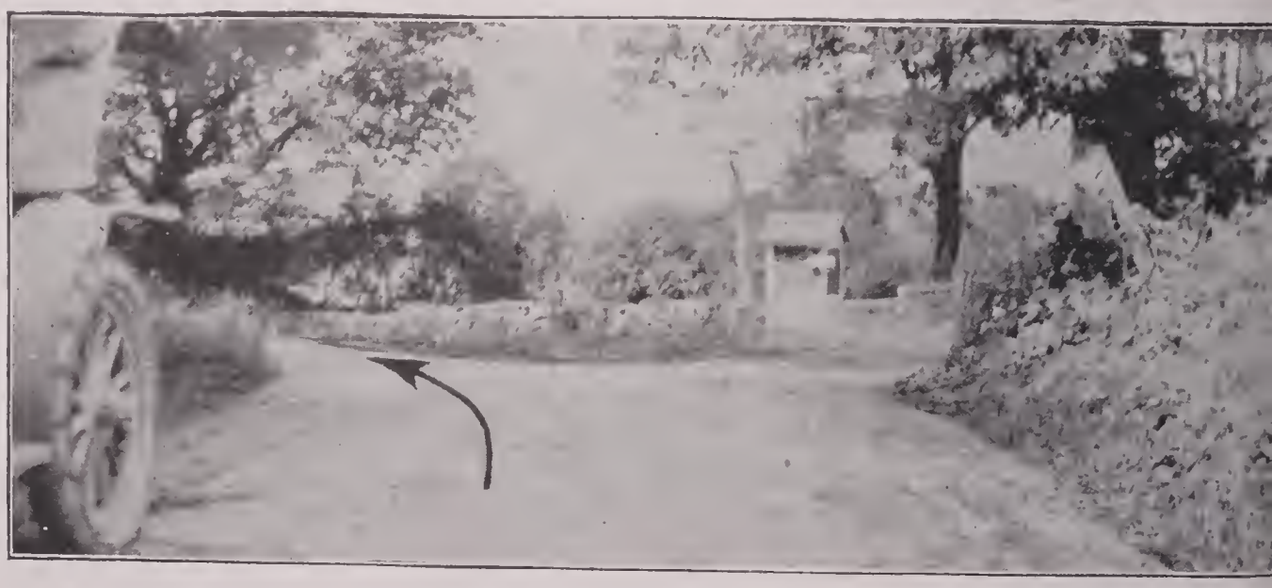
No. 780



Turn LEFT at three corners. Next photo in Buchana
two and four-tenths miles.

No. 779

BUCHANAN

urn RIGHT with car tracks in Buchanan. Next photo six-tenths of a mile.

emo .....

No. 778

urn RIGHT with car tracks. Next photo at end of road, four-tenths of a mile.

No. 777

Turn LEFT with car tracks at end of road. Next photo Peekskill, one and three-tenths miles.

Memo .....

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No. 776

PEEKSKILL

Turn RIGHT with car tracks in Peekskill. Garage of Jo L. Silleck on RIGHT-hand side of street after making tl turn. This is the best garage in town. Repairs and su plies of all kinds. Next photo two-tenths of a mile.

No. 775

Turn LEFT at end of street. Follow car tracks. Next photo three-tenths of a mile.

Memo .....

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No. 774

Turn LEFT at fork. Leave car tracks. Next photo nine-tenths of a mile.

No. 773

Turn LEFT after crossing bridge. Next photo one and eigh tenths miles.

Memo .....

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No. 772

Turn RIGHT and leave wires. Next photo one and thre tenths miles.

No. 771

eep to LEFT at fork. Next photo at cross-roads, two and nine-tenths miles.

emo .....

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No. 770

urn RIGHT at cross-roads. Next photo three and seven-tenths miles.

No. 769

Keep to RIGHT and leave wires. Next photo in Cold Sprin
five-tenths of a mile.

Memo .....

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No. 768

COLD SPRING

Turn RIGHT at end of street in Cold Spring. Next pho
in Nelsonville, four-tenths of a mile.

No. 767

NELSONVILLE

ke LEFT fork in Nelsonville. Next photo two and five-
enths miles.

mo .....

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No. 766

ep to the LEFT. Next photo two and four-tenths miles.

No. 765

Keep to the LEFT. Next photo in Fishkill Village, thr
and nine-tenths miles.

Memo .....

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No. 764

FISHKILL VILLAGE

Turn RIGHT in Fishkill opposite Mansion House. Wapping
Falls four and nine-tenths miles. Next photo at end
street in Poughkeepsie, twelve and eight-tenths miles.

No. 763

POUGHKEEPSIE

'n LEFT at end of Market Street into Main Street, then urn right into next street (Washington Street). Next hoto for Albany (No. 762) one and nine-tenths miles. 'or the Morgan House and Van's Garage turn right at this hoto (No. 763.)

mo .....

No. 762

ep to the LEFT. Hyde Park four and three-tenths miles. Staatsburg eight and four-tenths miles. Next photo ourteen miles.

MORGAN HOUSE, POUGHKEEPSIE, N. Y.

The best hotel in the city. Run on both the American an European plan. The only grill room in the city. Every thing first-class. Garage just back of hotel.

Memo .....

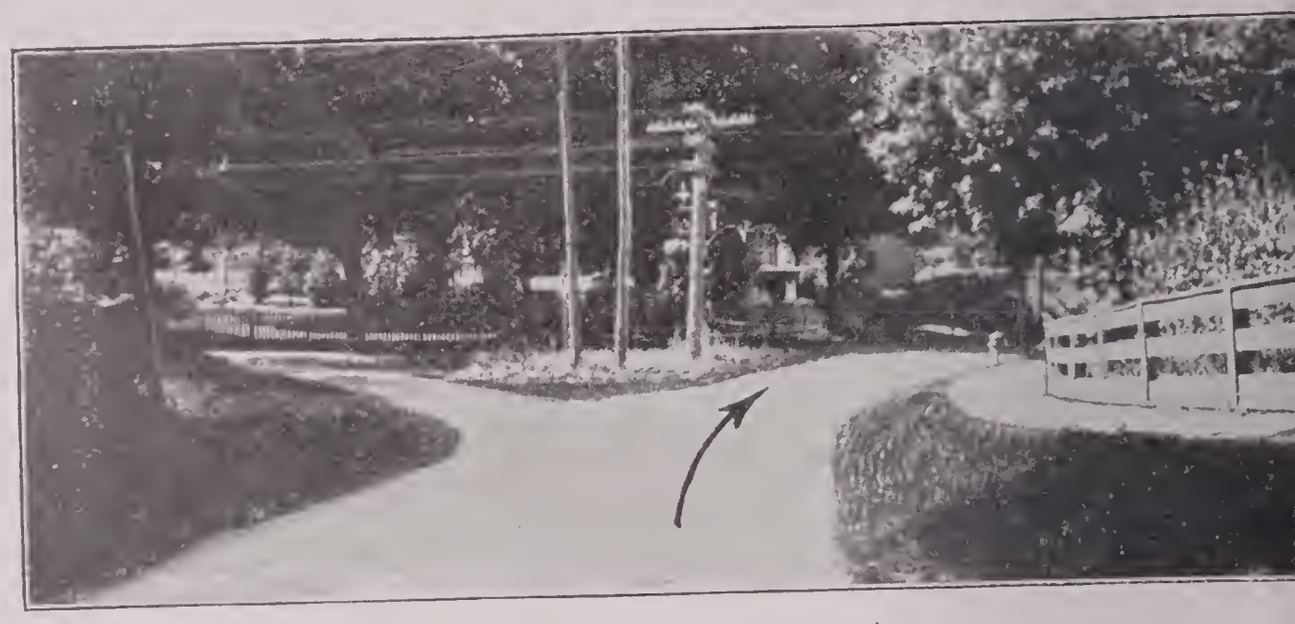
VAN'S GARAGE

14-20 CATHERINE STREET

st back of the Morgan House. Storage, supplies, and repairs. Agents for the Thomas, Packard, Pope-Toledo, Stevens-Duryea, Auto-Car and Oldsmobile. Private charging plant.

emo .....

No. 761



Keep to the RIGHT. Rhinebeck four-tenths of a mi
Next photo one and six-tenths miles.

Memo .....

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No. 760

Keep to the RIGHT. Red Hook one and five-tenths mi
Next photo in Upper Red Hook, seven and three-ten
miles.

No. 759

UPPER RED HOOK

Keep to the LEFT. Next photo in Blue Store, six and eight tenths miles.

Memo .....

No. 758

BLUE STORE

Turn LEFT at Blue Store. Next photo in Hudson, nine and five-tenths miles.

No. 757

HUDSON

Keep to the RIGHT at edge of Hudson. Next photo fo
tenths of a mile. For main part of Hudson, turn left
this photo.

Memo .....

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No. 756

Turn LEFT with car tracks Next photo seven-tenths
mile.

No. 755

TRAIGHT AHEAD. Stottville two and five-tenths miles. Next photo four and one-tenth miles.

emo .....

No. 754

rn RIGHT. Next photo three-tenths of a mile.

No. 753

Turn RIGHT at road house. Stockport five-tenths of a mil
Next photo in Stuyvesant Falls, three and six-tenths mile

Memo .....

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No. 752

STUYVESANT FALLS

Turn RIGHT after crossing bridge. Next photo one mile.

No. 751

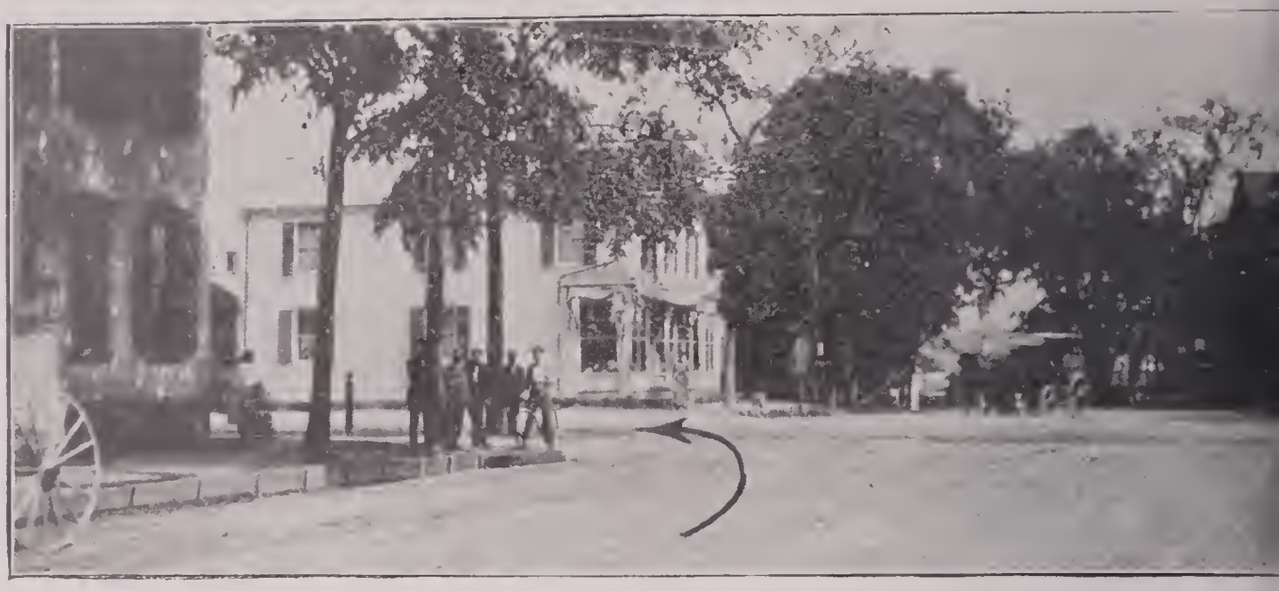
ake RIGHT road at fork. Next photo six-tenths of a mile.

emo.....

No. 750

ake LEFT road at fork. Next photo in Kinderhook, two miles.

No. 749



KINDERHOOK

Turn LEFT from Main Street. Next photo one and fou
tenths miles.

Memo .....

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No. 748

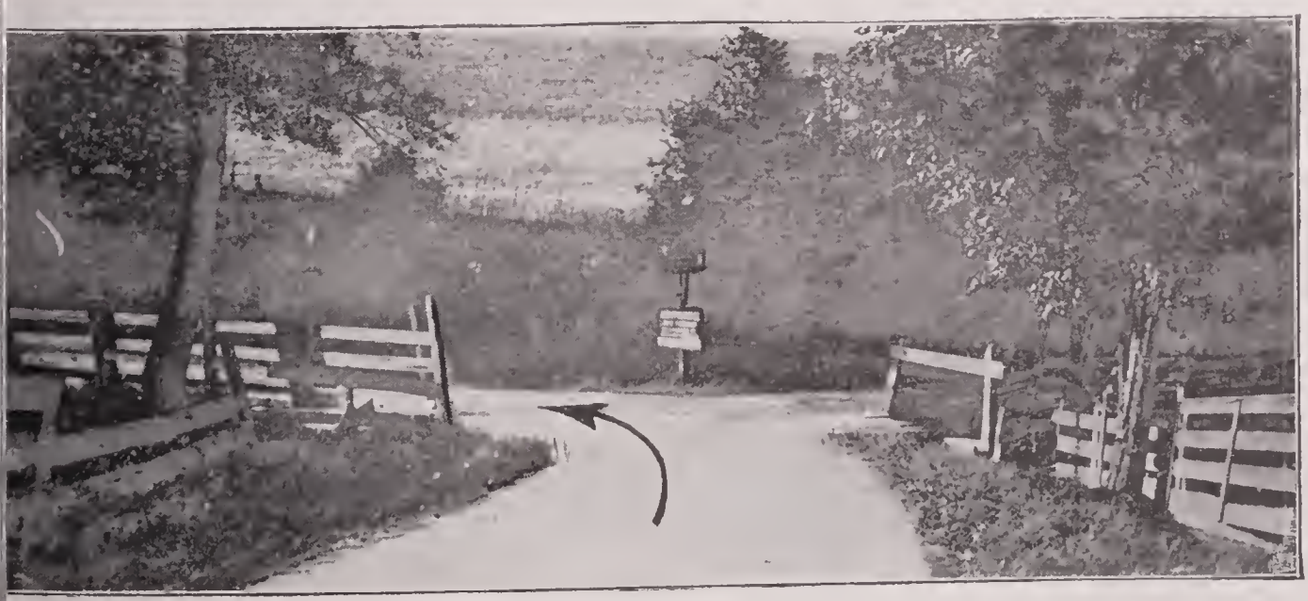
Turn RIGHT at fork. Next photo one and one-tenth mil

No. 747

urn LEFT at fork. Next photo seven and six-tenths miles.

emo .....

No. 746



urn LEFT at end of road. Next photo three-tenths of a mile.

No. 745

Turn RIGHT at fork. Next photo two and two-tenths mil

Memo .....

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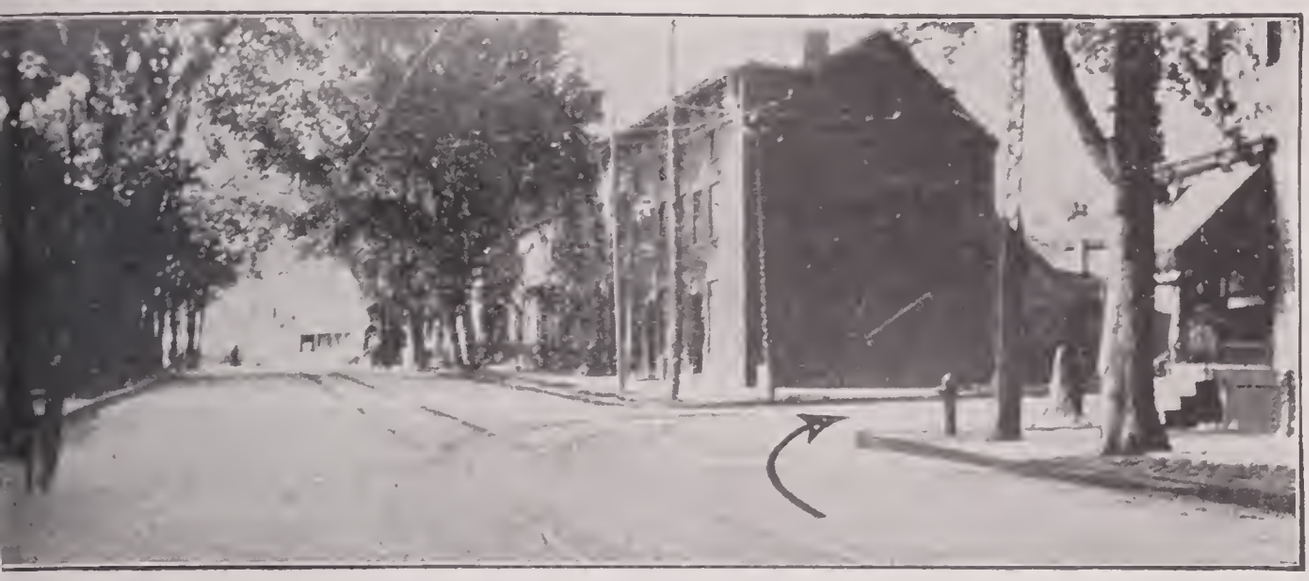
No. 744

Turn LEFT. Next photo in Rensselaer, seven and six-tent
miles.

No. 743

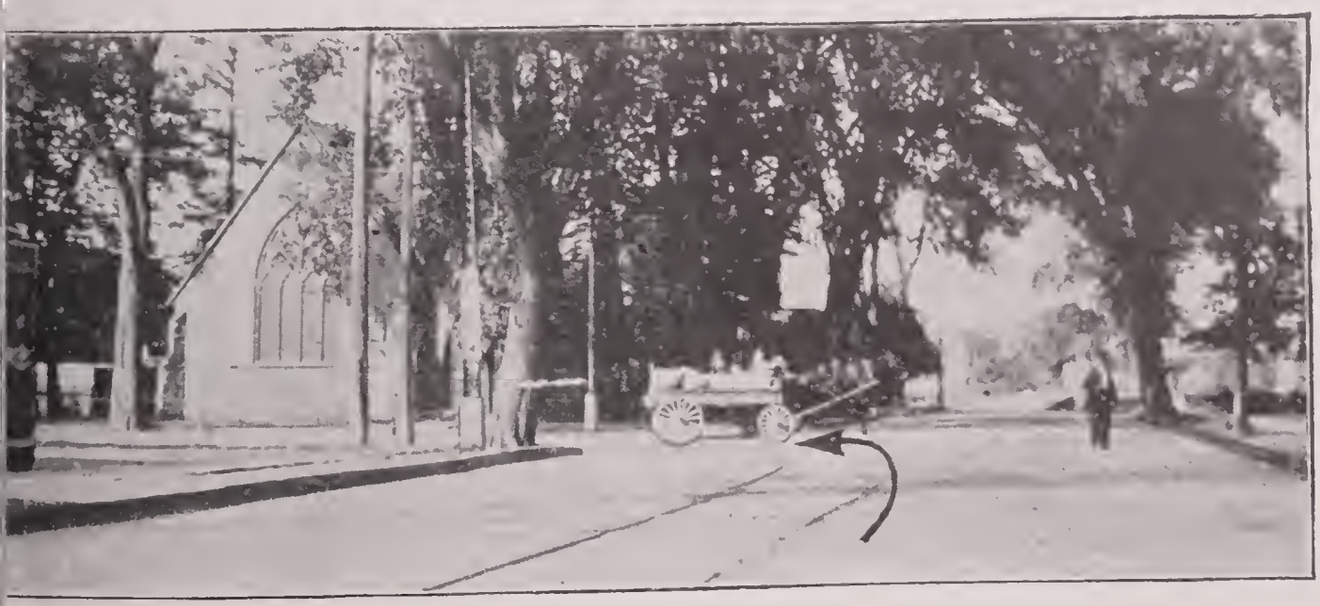


RENSSELAER

urn RIGHT at fork in car tracks. Next photo eight-tenths of a mile.

emo .....

No. 742



urn LEFT with car tracks and cross bridge over the Hudson River. Next photo in Albany, four-tenths of a mile.

No. 741

ALBANY

Make "S" turn to LEFT on leaving bridge and go West o South Ferry Street. Next photo at end of street, tw tenths of a mile.

Memo .....

No. 740

Turn RIGHT at end of South Ferry Street into Pearl Stree Next photo five-tenths of a mile.

No. 739

urn LEFT from Pearl Street into State Street. Hotel Ten Eyck (photo No. 738) one block.

emo

No. 738

THE TEN EYCK, ALBANY, N. Y.

FINISHING POINT for run from New York to Albar
The most attractive hotel in New York State. Firepro
European plan. Near State Capitol and other points
interest.

Memo.....

ALBANY GARAGE CO.

28-30 HOWARD STREET

osolutely fireproof. Storage, repairs and supplies. Agents for the Peerless, Stevens-Duryea, Thomas, Matheson, Isotta Fraschini and the S. & M. Simplex. Leave the Ten Eyck on the RIGHT and go up State Street to first street on left. Turn left into Lodge Street. Go one block and turn left into Howard Street. Garage on right-hand side of street.

emo .....

No. 737

ALBANY

Turn RIGHT at end of State Street. Then turn left int next street. State Capitol on left. Next photo six-tentl of a mile.

Memo .....

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No. 736

Take RIGHT street at fork. Next photo in Schenectad fourteen and seven-tenths miles.

No. 735

SCHENECTADY

ırn RIGHT at end of street. Next photo at end of bridge, four-tenths of a mile.

emo .....

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No. 734

TOLL BRIDGE

ırn LEFT at end of bridge. Next photo in Scotia, five-tenths of a mile.

No. 733

SCOTIA

Turn RIGHT with car tracks entering Scotia. Next pho
in Amsterdam, fourteen and five-tenths miles.

Memo .....

No. 732

AMSTERDAM

Turn RIGHT from Main Street into Market Street. N
photo two-tenths of a mile.

No. 731

Turn LEFT from Market Street into Spring Street. Next photo (No. 730) in Fonda, eleven and two-tenths miles.

Memo

No. 730

FONDA

Turn LEFT at fork and cross bridge. Hotel Brunswick, o right-hand side of Main Street, offers first-class accommod tions to tourists. The new garage of the Mohawk Machi Shop is just west of Hotel Brunswick. Supplies ar repairs of all kinds. Palatine Bridge eleven and six-tent miles. Nelliston fourteen and four-tenths miles. St. John ville twenty and four-tenths miles. Little Falls thirt eight and three-tenths miles. C. A. Ross Motor Car C on right-hand side of Main Street in Little Falls. Suppli and repairs of all kinds. Follow Main Street throug town. Next photo in Herkimer, seven miles from C. A Ross' garage, 40 W. Main Street.

Memo .....

HOTEL BRUNSWICK, FONDA, N. Y.

Hotel and Restaurant. First-class accommodations for tourists. Mohawk Machine Shop and new garage just west of this hotel. Storage, supplies and repairing.

Memo .....

No. 729

HERKIMER

Turn RIGHT and leave railroad. Next photo at end street, four-tenths of a mile.

Memo .....

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No. 728

Turn LEFT at end of street. Ilion (two and six-tent miles) and Frankfort (four and seven-tenths miles), on opp site side of river, are passed. East Shuyler five and seve tenths miles. Next photo in Deerfield, fourteen and on tenth miles.

No. 727

DEERFIELD

'urn LEFT with car tracks. Next photo in Utica, one and one-tenth miles.

Iemo .....

No. 726

UTICA

Take RIGHT fork just after crossing railroad tracks. Next photo (No. 724) in New Hartford, three and two-tenths miles. For the best garage in Utica take left street at this corner. Go to Bleeker Street (one block after crossing canal) and turn left. Utica Motor Car Co. half a block.

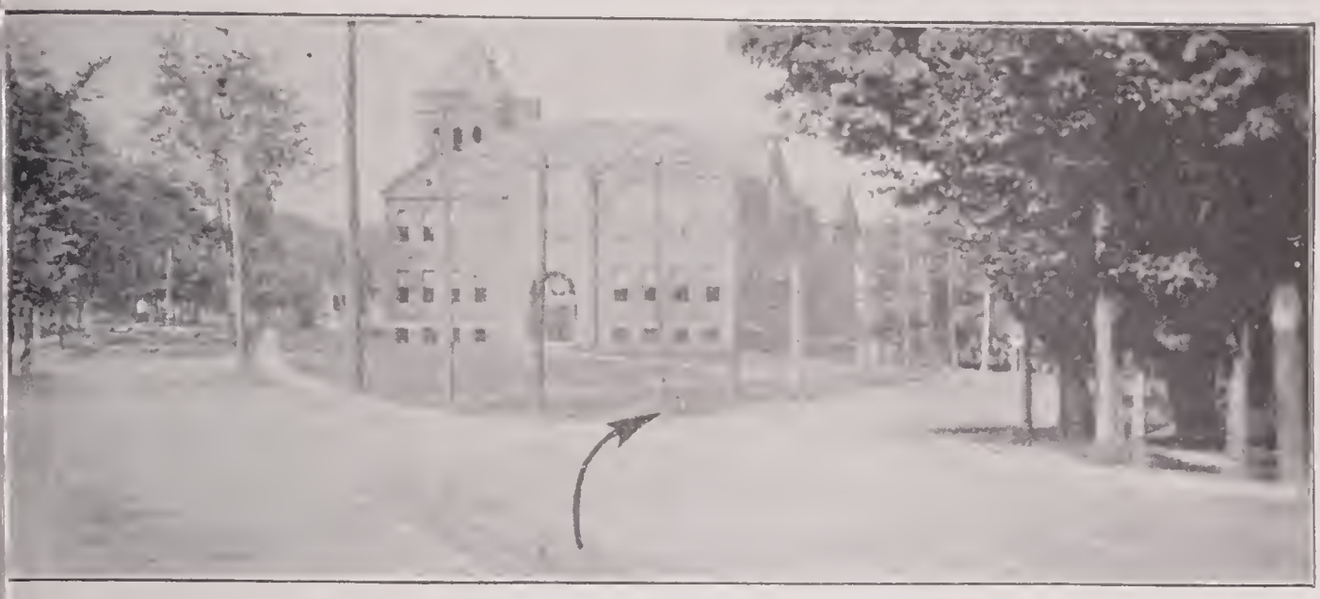
UTICA MOTOR CAR CO.

333-335-337 BLEEKER STREET

This is the best garage in Utica. Storage, repairs and supplies. Agents for Pierce Arrow, Peerless, Thomas, Stevens Duryea, Buick and Cadillac.

Memo .....

No. 724



NEW HARTFORD

ake RIGHT road at fork. Follow car tracks. Next photo one mile.

emo .....

No. 723

ake RIGHT road at fork. Follow most wires. Kirkland three and eight-tenths miles. Vernon twelve and two-tenths miles. Next photo in Sherill, fifteen and three-tenths miles.

No. 722

SHERILL

Turn RIGHT after going under railroad. Next photo o
and two-tenths miles.

Memo .....

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No. 721

Turn RIGHT after going over viaduct. Oneida Castle o
and one-tenth miles. Canastota six and eight-tenths mil
Next photo in Sulivan, eleven and nine-tenths miles.

No. 720

SULIVAN

ake RIGHT fork. Next photo entering Chittenango, nine-tenths of a mile.

emo .....

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No. 719

urn LEFT entering Chittenango. Next photo in Chittenango, six-tenths of a mile.

No. 718

CHITTENANGO

Take RIGHT fork at watering trough. Next photo tw
tenths of a mile.

Memo .....

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No. 717

Turn RIGHT at cross-roads. Mycenae two and two-tent
miles. Fayetteville eight miles. De Witt ten and eigh
tenths miles. Next photo in Syracuse, fifteen and thre
tenths miles.

No. 716

SYRACUSE

urn RIGHT at end of street. Park on right. Then turn left into diagonal street (E. Genesee Street). Next photo one-tenth of a mile.

emo

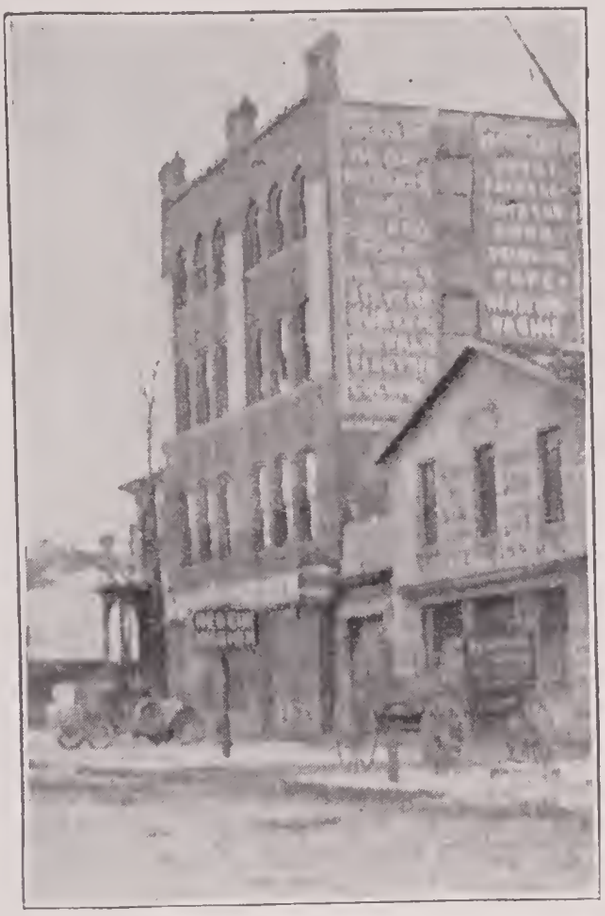
No. 715

THE YATES, SYRACUSE, N. Y.

(THE YATES HOTEL CO., C. S. Averill, Pres.)

This is the best hotel in Syracuse for the accommodation of tourists. European plan, with fine Cafe and Grill Room in connection. Opposite the City Hall. Leave the Yates Hotel on the LEFT and go West on East Genesee Street. Next photo two blocks.

Memo .....



AMOS & PIERCE AUTOMOBILE CO.

The best garage in Syracuse. Storage, supplies and repairs. Agents for the Oldsmobile, Peerless, Pope-Toledo, Stevens-Duryea, Columbia, Locomobile, Packard, Pope-Tribune, Pope-Hartford and Racine. Leave the Yates on the RIGHT and go East on Washington Street. Go one block and turn left into State Street. Garage half a block.

Memo .....

No. 714

Turn RIGHT from East Genesee Street and cross canal. The turn left into West Genesee Street. Next photo one and five-tenths miles.

Memo .....

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No. 713

Take RIGHT fork after crossing bridge and go West on Genesee Street. Do not follow car tracks. Next photo leaving Camillius, seven miles.

No. 712

CAMILLIUS

'urn RIGHT leaving Camillius and go up hill. Next photo one-tenth of a mile.

Memo .....

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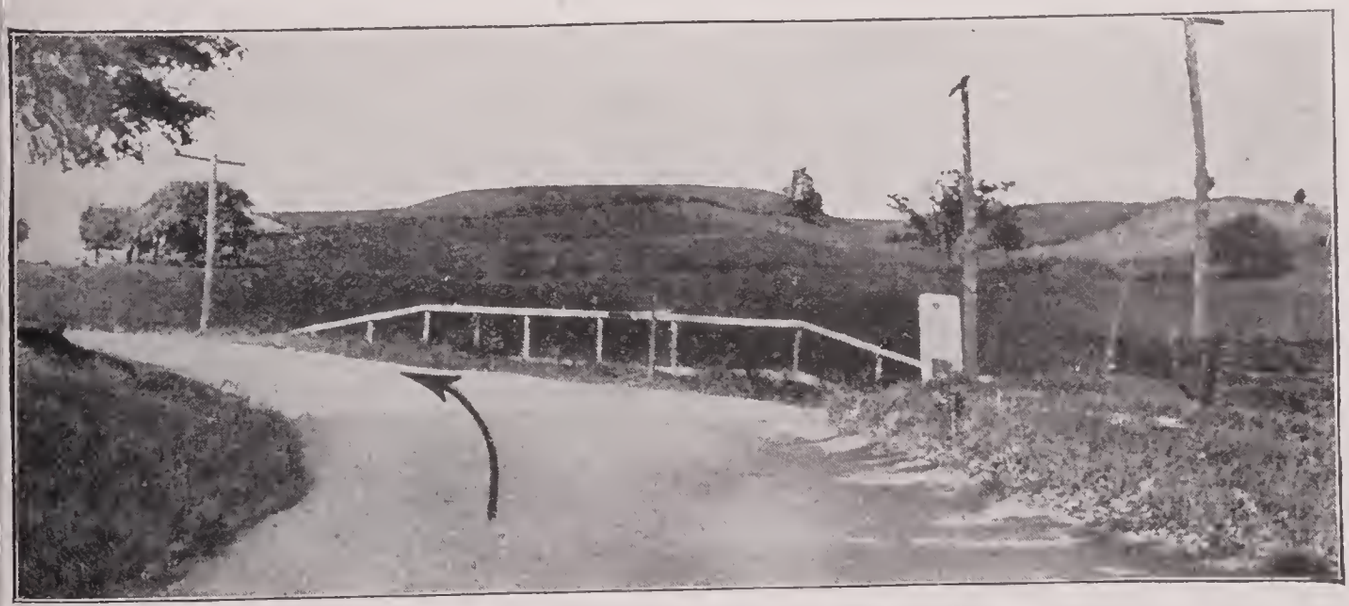
No. 711



Turn LEFT half-way up hill. Elbridge seven miles. Next photo at Sennett, eleven and nine-tenths miles.

No. 710

SENNETT

Take LEFT fork. Next photo one and three-tenths miles

Memo .....

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No. 709

STRAIGHT AHEAD. Leave the wires. Next photo i
Auburn, three and eight-tenths miles.

No. 708

AUBURN

Turn RIGHT from Fulton Street into East Genesee Street. Next photo at foot of hill, three-tenths of a mile.

Memo .....

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No. 707

Turn LEFT from East Genesee Street into West Genesee Street. Next photo two-tenths of a mile.

No. 706

Turn RIGHT from West Genesee Street into State Stree
Next photo at next crossing.

Memo .....

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No. 705

Turn LEFT from State Street into Clark Street. Next ph
seven and four-tenths miles. For Hotel Osborn and Aubu
Automobile Co., go straight ahead at this photo. Ho
Osborn is the best hotel in Auburn. For supplies, repa
and charging go to the Auburn Automobile Co., just ba
of Hotel Osborn.

THE OSBORNE HOUSE, AUBURN, N. Y.

American and European plan. The best hotel in Auburn.

GRILL ROOM

One of the best grill rooms in New York State.

AUBURN AUTOMOBILE CO.

54-60 WATER STREET, AUBURN, N. Y.

Next door to the Osborn House. Fireproof. Accommodatio for fifty cars. Storage, supplies and repairs. Agents f the Franklin, Peerless, Buick, Waltham and Pope-Waverl

Memo .....

No. 704

Turn RIGHT and North. Next photo four-tenths of a mile.

Memo .....

No. 703

Turn LEFT at three corners. Next photo one-tenth of a mile.

No. 702

Take RIGHT road at fork. Next photo ten miles.

Memo .....

No. 701

Turn RIGHT at three corners. Follow wires. Next phot
in Phelps, nine and two-tenths miles.

No. 700

PHELPS

Take RIGHT road at fork in Phelps. Next photo nine-tenths of a mile.

Memo .....

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No. 699

Turn RIGHT and North leaving Phelps. Next photo two-tenths of a mile.

No. 698

Turn LEFT and follow wires. Next photo at end of roa
three and one-tenth miles.

Memo .....

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No. 697

Turn RIGHT into first road after crossing bridge. Ne
photo four-tenths of a mile.

No. 696

Turn LEFT and North. Next photo two and three-tenths miles.

Memo .....

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No. 695

Turn LEFT. Schoolhouse on right. Next photo seven-tenths of a mile.

No. 694

Turn RIGHT at end of road. Port Gibson one and six-tenth miles. Next photo two miles.

Memo .....

No. 693

Take RIGHT road at fork. Next photo in Palmyra, four an nine-tenths miles.

No. 692

PALMYRA

Turn RIGHT. Next photo leaving Palmyra, five-tenths of a mile.

Memo .....

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No. 691

Turn RIGHT from Main Street into Church Street. Next photo after crossing canal, four-tenths of a mile.

No. 690

Turn LEFT just before reaching railroad embankment. Nex
photo three and one-tenth miles.

Memo .....

No. 689

Turn LEFT and cross canal. Macedon six-tenths of a mile
Next photo one and four-tenths miles.

No. 688

ake RIGHT road at fork. Egypt four and eight-tenths miles. Pittsford ten and six-tenths miles. Next photo thirteen and two-tenths miles.

emo

No. 687

urn LEFT and cross canal. Next photo in Rochester, three and seven-tenths miles.

No. 686

ROCHESTER

Turn RIGHT from Monroe Avenue into Clinton Avenu
Next photo three-tenths of a mile.

Memo .....

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No. 685

Turn LEFT from Clinton Avenue into Main Street. Ne
photo six-tenths of a mile.

No. 684

SENECA HOTEL, ROCHESTER, N. Y.

A. M. WOOLLEY, Manager

Rochester's New Fireproof Hotel, Clinton Avenue South. 350 rooms, 300 with tub or shower bath. European plan, $1.50 per day and upward. Write for illustrated booklet. Next photo for Buffalo (photo No. 683) at Clinton Avenue, six-tenths of a mile.

Memo.....

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UNITED STATES AUTOMOBILE CO.

21 TO 29 PLYMOUTH AVENUE

Turn LEFT into Plymouth Avenue, one block beyond Powe Hotel. Garage on right, one half-block. This is the be garage in Rochester. Supplies, repairing and chargin Agents for the Stearns, Stevens-Duryea, Locomobile a Pierce Arrow. Ask for a tour book for trips arou Rochester.

Memo .....

No. 683

Take RIGHT street at fork. Follow car tracks. North Chili nine miles. Churchville thirteen and three-tenths miles. Next photo sixteen and one-tenth miles.

Memo .....

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No. 682

Turn RIGHT entering Bergen. Next photo one and eight-tenths miles.

No. 681

Turn RIGHT at end of road. Byron five and three-tenth miles. Next photo six and two-tenths miles.

Memo .....

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No. 680

Turn LEFT and North. Next photo four and nine-tenth miles.

No. 679

urn RIGHT just after passing schoolhouse. Next photo at end of road, four-tenths of a mile.

Memo .....

No. 678

urn LEFT at end of road. Next photo eight-tenths of a mile.

No. 677

Turn RIGHT at cross-roads; roadhouse on left before turning Hotel Richmond, in Batavia, two and nine-tenths miles This is the best hotel between Rochester and Buffalo everything first-class. Hilts & Kennedy's new garage on Main Street, opposite Hotel Richmond. Supplies and repairing—the best of everything. East Pembroke seven miles. Pembroke thirteen and six-tenths miles. Clarence twenty-one and five-tenths miles. Williamsville twenty nine and seven-tenths miles. Next photo in Buffalo, thirty nine and six-tenths miles.

Memo .....

HOTEL RICHMOND, BATAVIA, N. Y.

The best hotel between Buffalo and Rochester. Special attention given to tourists. Hilts & Kennedy's new garage on opposite side of Main Street. Storage, supplies and repairs.

Memo .....

No. 675

THE IROQUOIS HOTEL, BUFFALO, N. Y.

STARTING POINT for run from Buffalo to Clevelanc This is the best hotel in Buffalo for the accommodation c tourists. European plan, with Cafe, Restaurant and Gri Room in connection. Leave the Iroquois Hotel on th LEFT. Next turn two blocks.

Memo

NOTHING ADDS MORE TO THE JOY OF TOURING THAN A SET OF

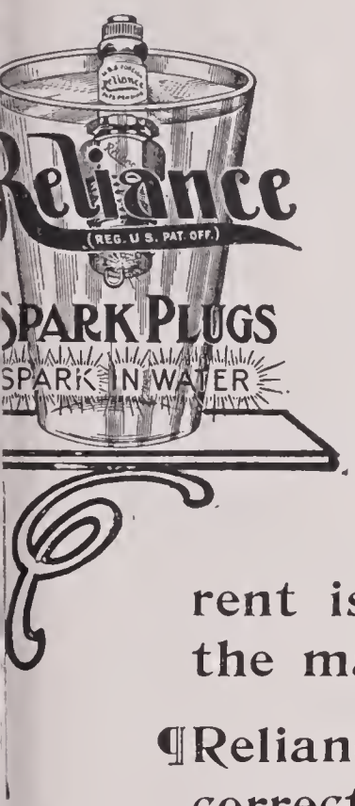
Reliance

REG. U.S. PAT. OFFICE

SPARK PLUGS

"THEY SPARK IN WATER"

MORE THAN ORDINARY



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is good enough for **5000 miles** more if equipped with a

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This is a worn out casing as it comes to us to be MADE NEW

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At Your Dealers
$3.00 per gallon
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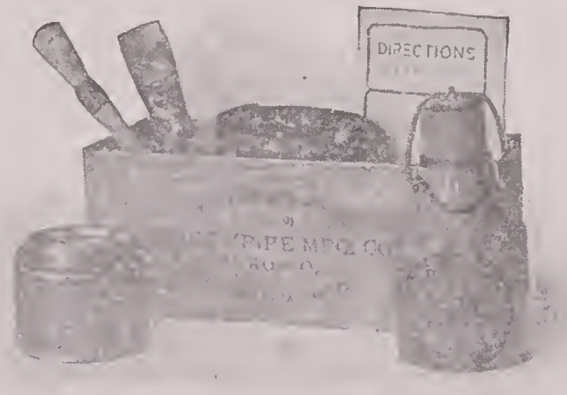
Or With Cash Order



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NO MORE FLAT TIRES

Just Carry an AKRON REPAIR KIT

An acid cure process that vulcanizes the cement to the rubber, making it one solid piece, and by which any repair to your inner tube or casing is permanently made at any time and any place. **YOU ARE ON YOUR WAY IN A MOMENT**—and there is no hard work about it either, doesn't even soil your hands. Heat, moisture or hard usage will absolutely not affect a repair properly made with this cement and solution, and it's not injurious to the finest quality rubber.

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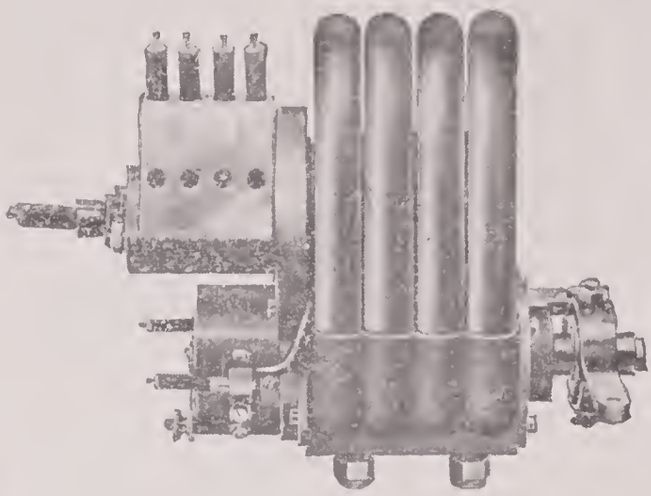

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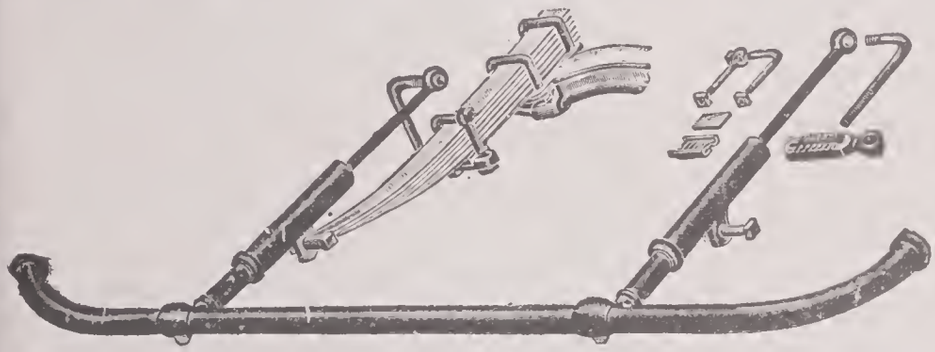
McGREGOR SPRING BUMPER



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Attractive in Design
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No Drilling of Frame
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Has the points of merit of others as well as valuable features of its own

LOWEST IN PRICE YET SELLS ON ITS MERITS

SOLD ONLY THROUGH DEALERS

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McGREGOR BUMPER CO.

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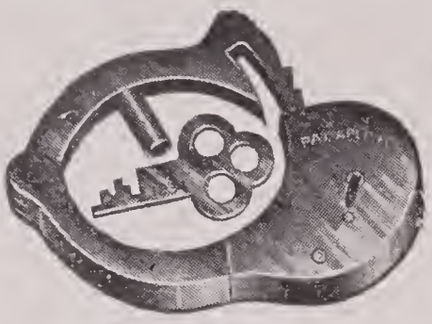
ROCHESTER SAFETY LOCK FOR AUTOMOBILES

"A Lock that Locks"

It is not necessary to drill your steering bar full of holes. Only one hole to drill and the lock is ready to place in position. Interchangeable combination. THIEF PROOF. Absolutely keyless. Ask your dealer or write direct for descriptive matter.



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Michigan Avenue
CHICAGO AGENTS

Our four-tumbler adjustable hasp Key Auto Lock will lock any automobile, motor cycle, bicycle, steamship gear, or can be used as a padlock. Also THIEF PROOF. Ask your dealer for prices or write us direct for descriptive matter.

Rochester Safety Lock Co.

ROCHESTER, IND.

IS IT REASONABLE TO SUPPOSE that over sixty leading manufacturers of automobiles would use and recommend

TRADE MARK REGISTERED IN UNITED STATES PATENT OFFICE

NON-FLUID OIL

for transmissions and bearings if these lubricants did not show best results in increasing efficiency, preventing wear, economizing gasoline and promoting cleanliness. Don't sacrifice your car for a doubt — try non-fluid oils.

"IT SUITS BECAUSE IT DOESN'T SOOT"

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TRADE MARK REGISTERED, U.S. PATENT OFFICE.

for cylinder lubrication **accomplishes** what is **claimed** for other oils by lubricating effectively and economically without carbonizing. It increases engine efficiency — permits greater speed and power on less gasoline.

Sole Producers: NEW YORK & NEW JERSEY LUBRICANT CO., 165 Broadway, N. Y. City

FIVE —GOOD— REASONS WHY

"THAT STRANG" SPARK PLUG

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1.—"THAT" BROAD GUARANTEE The No-Trubble Plug We hereby agree to replace any plug that fails to work or is defective in any manner whatsoever within one year from date of purchase.

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If your dealer does not **yet** handle "THAT STRANG" PLUG, WRITE US AND WE WILL See that you are supplied

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Keep Your Auto Radiator and Water Jacket Clean by Using

TRADE NONKORODA MARK

Automobile Radiator
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Canister, $1.00

You can't afford to ruin your expensive Radiator and Water Jacket through corrosion, when it can be prevented for so small a cost.

PREVENTS AND REMOVES

DIRT, RUST and GREASE from ENGINE WATER JACKETS and RADIATORS, CREATES a PERFECT CIRCULATION of the WATER and a COOL RUNNING ENGINE.

Sold by all Auto Supply Stores and Garages, or direct from

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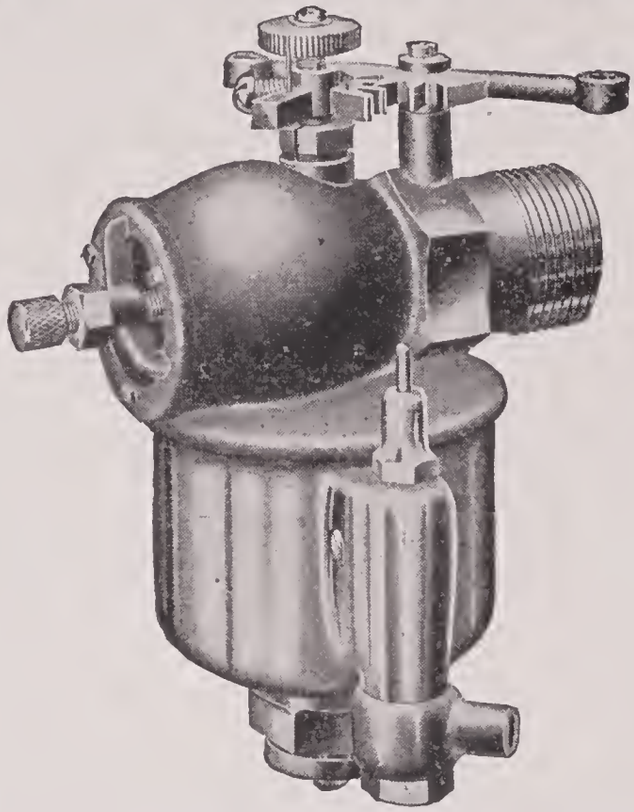
MODEL "C"
HEITGER CARBURETER



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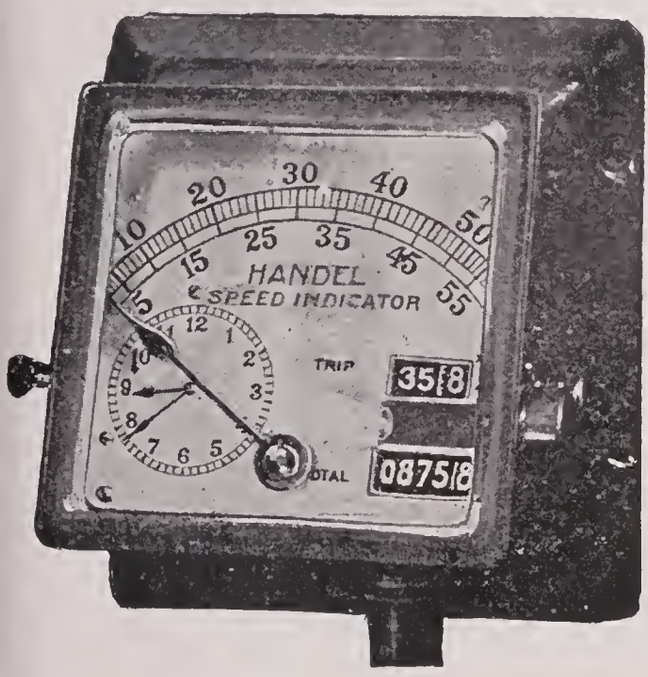

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It is absolutely accurate
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It is guaranteed for five years
The hands do not waive and wobble.

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PREVENTS DELAY—LINGER AND WAIT—

takes care of all Porous or Punc-
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gum up or get hard. Does not
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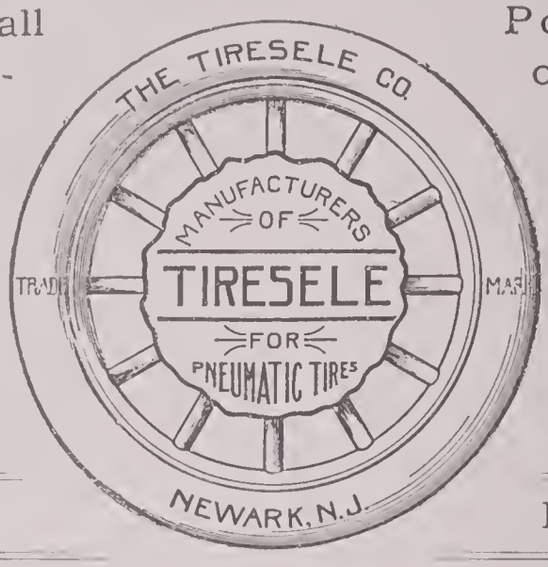

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KARBON KUTTER

WILL SAVE YOU MONEY

Cleans thoroughly all carbon and sediment from motor without injury to any parts.

GARAGE MAN'S CHARGE for tearing down motor and scraping carbon, ten hours - - - - - $6.50

OUR CHARGE—1 qt. KARBON KUTTER - - - 1.00

Saved - - - - - - - - - $5.50

A set of Scrapers free with each order for one dozen quarts.

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AUTOMOBILE BRAKE BAND LINING

HAS A REINFORCED CUSHION SURFACE THAT TAKES UP ALL SUDDEN JARS AND PERMITS THE RIVETS TO BE COUNTERSUNK, THUS BRINGING THE WEAR ON THE LINING AND NOT ON THE RIVET HEAD

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IT IS SOLD UNDER AN ABSOLUTE GUARANTEE

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EXCLUSIVE MANUFACTURERS

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The finest Garage in southern Indiana. Our terms are right, and we don't care who knows it.

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Outfit consists of DOME SELF - MEASURING, PRICE COMPUTING PUMP with Tokheim Patent Priming Chamber, Drip Pan, Gauge Rod and Locking Device. Tanks furnished in any desired capacity.

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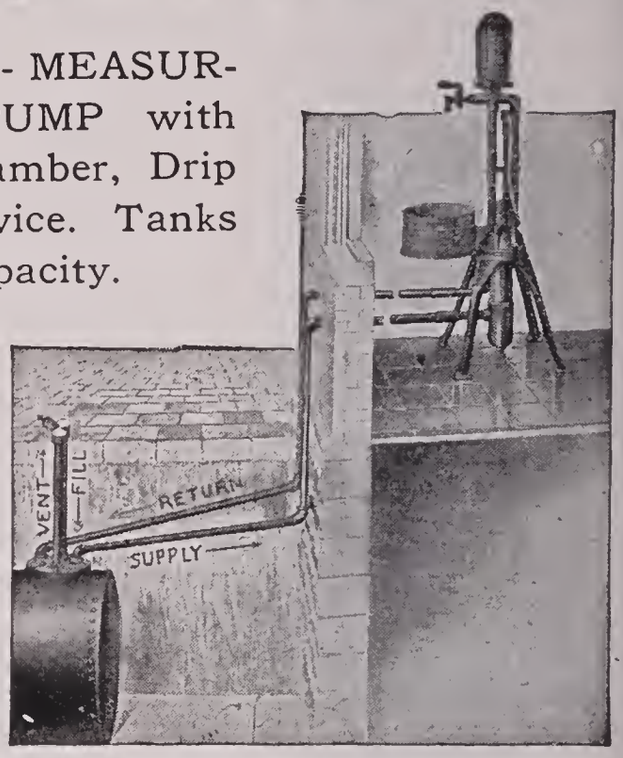
WRITE FOR CATALOG

We manufacture twenty-five styles of SELF-MEASURING OIL OUTFITS.



Dome Outfit No. 4.

THE TOKHEIM MFG. CO., CEDAR RAPIDS, IOWA

THE "MULTO" SOCKET RATCHET WRENCH

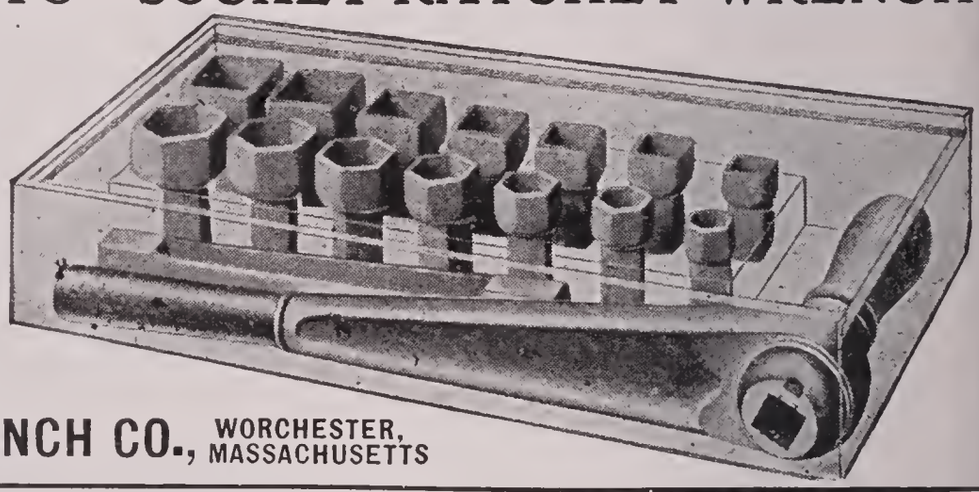
We make Wrenches all sizes from 5-16 to 5 in. sq., 5-8 to 5 in. hex.

This half-tone is from a photograph, showing our "Multo" Socket Wrench. Each Wrench with its fourteen sockets is packed in a substantial covered box.

All our Ratchet Wrenches are reversible and work right or left handed at pleasure without removing the Wrench.

All kinds and sizes.

Send for catalogue.



LOWELL WRENCH CO., WORCHESTER, MASSACHUSETTS

The use of "DUFFY'S" proves our claim
"ONCE A GREASE,
ALWAYS A GREASE"

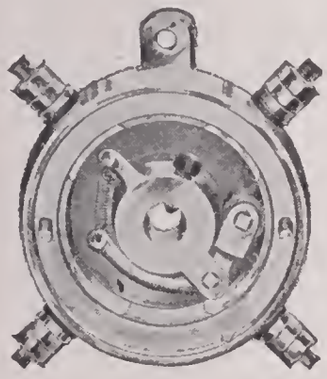
No waste or flushing on the brakes.
Not affected by weather conditions.
Used wherever a grease is used.

Try it

DUFFY GREASE COMPANY, Inc.
New York, N. Y.

Timers and Distributors

OF EVERY KNOWN TYPE
FOR EVERY KNOWN SERVICE



We are specialists in this line and our experience and manufacturing facilities enable us to turn out large quantities for engine builders and dealers at very attractive prices. Jobbers and dealers write us for prices. Agents wanted in the West and on the Coast.

The Altemus Manufacturing Co.

42d AND CHESTNUT STREETS
PHILADELPHIA, PA.

TRADE MARK
Raybestos

FRICTION FACING

Is made IN ONE PIECE from asbestos.

Is impregnated in such a manner that it is proof against heat, oil and grease.

Is an ABSOLUTELY DEPENDABLE Brake Lining. You owe to yourself to see that your brakes are lined with it, if you want to have complete control of your car on the steepest grades.

ROYAL EQUIPMENT COMPANY

176 Housatonic Avenue **BRIDGEPORT, CONN.**

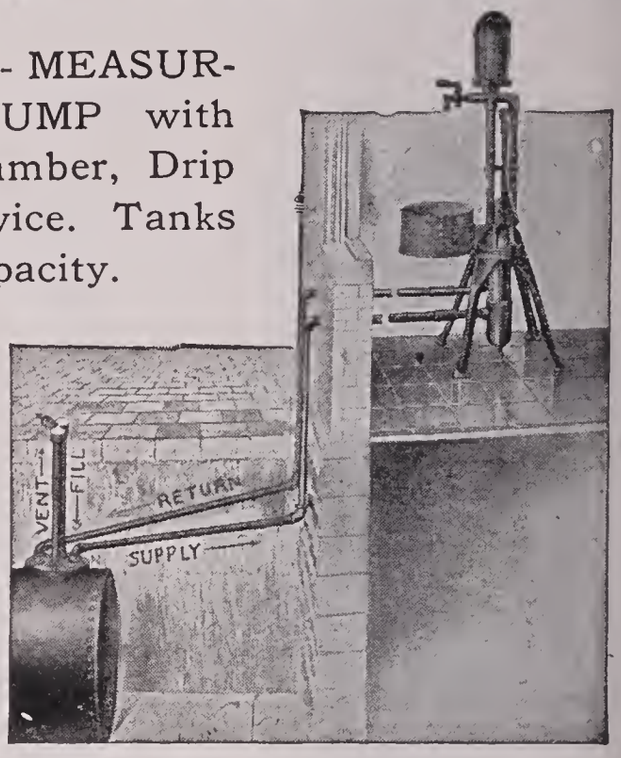
The Tokheim Gasoline Outfit

Outfit consists of DOME SELF - MEASURING, PRICE COMPUTING PUMP with Tokheim Patent Priming Chamber, Drip Pan, Gauge Rod and Locking Device. Tanks furnished in any desired capacity.

Pump can be furnished with Special Three-Way Discharge Valve and with Counter which registers the amount discharged up to 9999 gallons and repeats.

WRITE FOR CATALOG

We manufacture twenty-five styles of SELF-MEASURING OIL OUTFITS.



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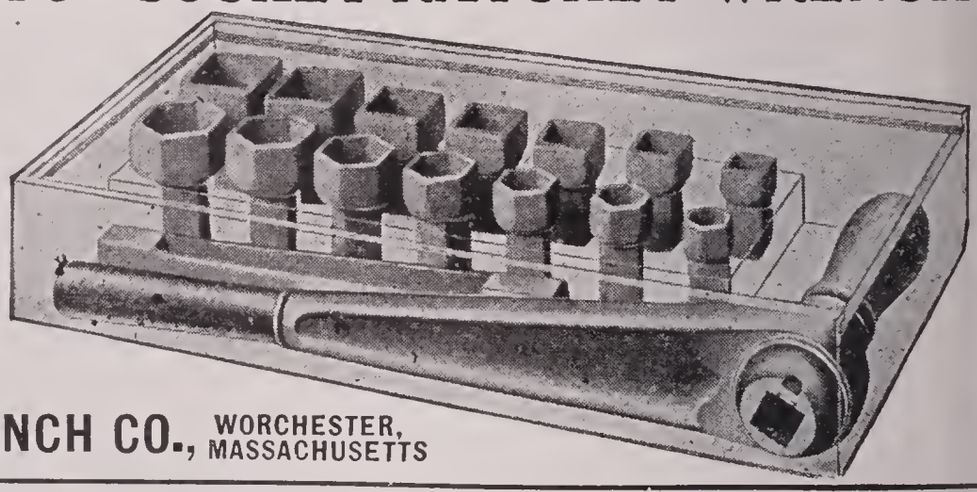

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No waste or flushing on the brakes. Not affected by weather conditions. Used wherever a grease is used.

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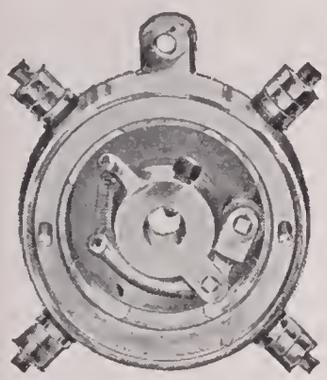
New York, N. Y.

Timers and Distributors

OF EVERY KNOWN TYPE
FOR EVERY KNOWN SERVICE



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The Altemus Manufacturing Co.

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PHILADELPHIA, PA.

TRADE MARK
Raybestos

FRICTION FACING

Is made IN ONE PIECE from asbestos.

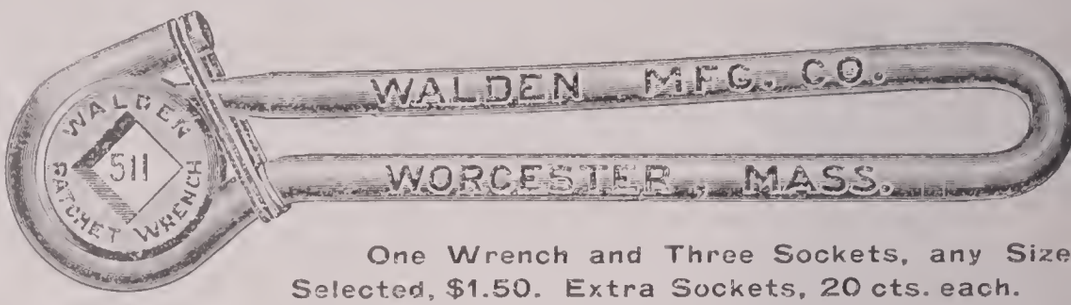
Is impregnated in such a manner that it is proof against heat, oil and grease.

Is an ABSOLUTELY DEPENDABLE Brake Lining. You owe to yourself to see that your brakes are lined with it, if you want to have complete control of your car on the steepest grades.

ROYAL EQUIPMENT COMPANY

176 Housatonic Avenue **BRIDGEPORT, CONN.**

STEEL SOCKETS FIT
No. 511



One Wrench and Three Sockets, any Size Selected, $1.50. Extra Sockets, 20 cts. each.

Hexagonal Sizes Only to Fit Heads	
No. 06	3/8
No. 08	1/2
No. 09	9/16
No. 010	5/8
No. 011	11/16
No. 012	3/4
No. 014	7/8
No. 015	15/16
No. 016	1
No. 017	1 1/16
No. 018	1 1/8
No. 020	1 1/4

THE ONLY THREE-PIECE RATCHET WRENCH. NOTHING TO GET OUT OF ORDER. SIMPLEST POSSIBLE TOOL. THE HANDLE IS WIRE—BUT IT CAN'T BREAK—IT WON'T BEND—IT WILL STAND THE STRAIN—A STRONG, SERVICEABLE WRENCH, THOROUGHLY WELL MADE; Best of Selected Stock; Nickel Finish.

For Tire Lugs			
No. 28	1/2"	Hex.	$ .35 Each
No. 29	9/16"	Hex.	.35 Each
No. 212	3/4"	Hex.	.40 Each

WE MAKE SPECIAL WRENCHES WE WANT YOUR INQUIRIES

TRADE MARK CLEANOLA REGISTERED

TRADE MARK SPE-DE-SHYNE REGISTERED

The Auto Polish of Quality.
Restores the shine and surface to the body, leather trimmings, cushions and top, prolongs the life of the finish and greatly improves the appearance of the car.

The Metal Polish with the Elbow Grease in the Can.
More Polish, Less Work.
Wipes Freely, Contains no Acid.
Imparts a brilliant lustre to all Metallic Surfaces.

SOLD BY ALL FIRST CLASS DEALERS IN AUTOMOBILE SUPPLIES

If your dealer hasn't got them in stock, write us for our

Thirty-Day Trial Offer

THE CLEANOLA COMPANY

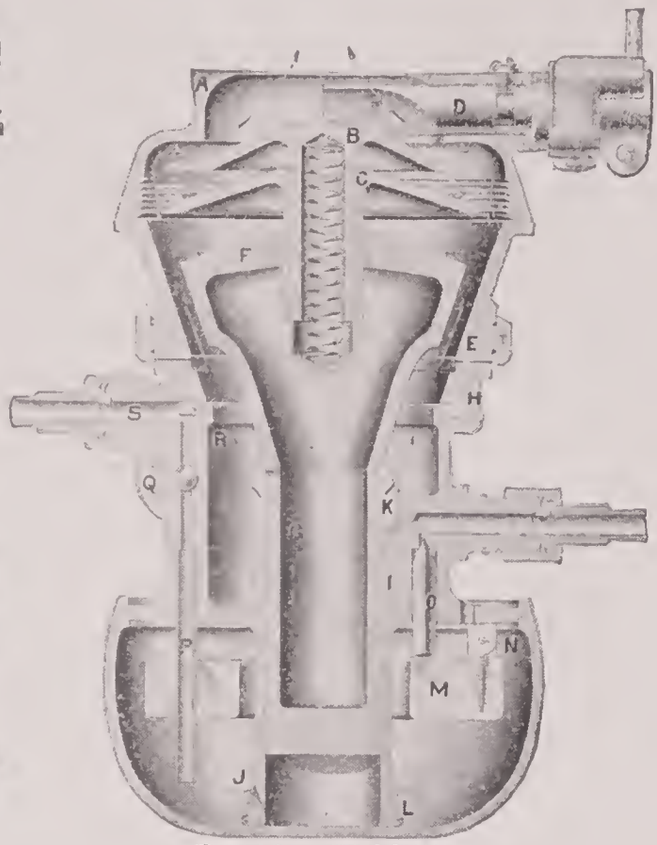
Fulton Building
PITTSBURG, PA.

53 West Van Buren Street
CHICAGO, ILL.

New Principle

THE

Stewart Precision Carburetor



Sectional View.

You want the maximum of POWER
on the minimum of FUEL.
You want quiet running and
a UNIFORM MIXTURE at all speeds.

THE

STEWART PRECISION CARBURETOR

will get you these results better than any instrument you have ever used, or your money will be refunded.

NEW PRINCIPLE.

The proportioning of air and gasoline is accomplished by **gravity,** acting on the one moving part, there being no **springs.**

THE RESULT

is a consistent performance at all times. Write for descriptive matter

Alfred C. Stewart Machine Works,

LOS ANGELES, CAL.

FOUR GOOD THINGS

MOBO AUTOMOBILE CLEANSER

is made as good as automobile soap can be made. It has a substantial body. Therefore it cleans easily, quickly and thoroughly. MOBO is also absolutely free from uncombined alkali. Because of this it works without injury. These things about MOBO mean much. They mean clean, bright cars, also long life to varnish and paint. Therefore we suggest—try MOBO—in 50c and $1.00 cans.

SHOFO HAND CLEANSER

is made of Castile Soap, powdered Pumicestone and green Olive Oil. These three SHOFO ingredients show a quick, easy and effective working out. To explain, the Castile Soap washes, the Pumicestone scours and the Olive Oil keeps the skin soft. This SHOFO way of hand cleansing is ease, speed and delicacy combined. It is better than all others. Therefore we say—try SHOFO. In 10c and 20c cans.

HYGLO METAL POLISH

is different from all other metal polishes. It is one that eliminates the wait-while-it-dries feature. Also that rub-rub-rub which does tire. Instead the HYGLO way is quick, easy and sure. Then further a HYGLO shine is always even and brilliant, and one also that stays long. In that regard a HYGLO shine is distinctly long-lived, and the only one that is a real all-day shine. 15c, 25c and $1.50 cans.

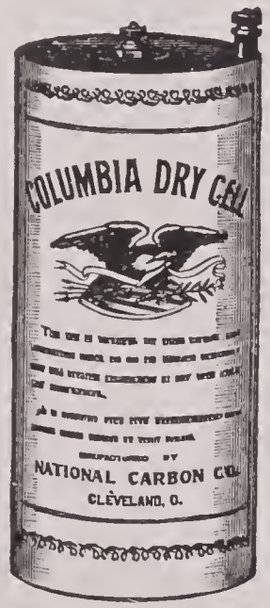
LEVO WOOD POLISH

is good for cars minus part of the fine varnished finish they had when new. That because LEVO fills in digs and covers up bare spots. At the same time LEVO gives a polish equal to a new coat of varnish, which does not wear off quickly, or come off in washing, because LEVO is an oil preparation and is waterproof. So if your car shows varnish departed, but not enough to warrant the paint shop—Try LEVO, and it will make the car look new. In 25c, 50c and $1.00 bottles.

JOHN T. STANLEY - MAKER - NEW YORK

SOLD BY

MOTOR CAR SUPPLY CO., 1451 MICHIGAN AVE., CHICAGO



BE GUIDED

by other MOTORISTS and equip your MACHINE with

COLUMBIA

or COLUMBIA IGNITOR

"RED TOP" dry cells.

Don't accept SUBSTITUTES which may spoil your trip. INSIST on getting COLUMBIA cells. They cost NO MORE.

No Extra Charge for Fahnestock Clips

NATIONAL CARBON COMPANY CLEVELAND, OHIO

On Dunlop Type

Over 8,000 miles with a Cadillac on Diamond Dunlop type tires and no tire trouble at all. That's what I think of the Diamond Dunlop Style of tires.

R. W. Emerson,
Central City, Ia.

What's Your Car ?

On Fisk Type

My experience with Diamond Fisk Type or "bolted on" tires on my Stevens-Duryea has been so satisfactory that I shall certainly have none but Diamond in future.

N. L. Ely,
Peekskill, N. Y.

Big or Little **Diamond** **Heavy or Light**

WRAPPED TREAD TIRES ARE FOR YOU

On a Large Car

I can well imagine that you receive many testimonials for Diamond tires, but I wish to add mine—that Diamond tires on my Peerless Car have been nothing short of extraordinarily fine.

Fred Hoke,
Indianapolis.

Much Better

Cost No More

Quick Detachable
Regular Clincher
Mechanical (Dunlop)
And Fisk Types

On a Light Car

As a physician using a runabout in practice, I drive the car very hard and the tires must bear the brunt of it. Am pleased to say I find Diamond tires much better than all the others I have used.

(Dr.) S. A. Muta,
West Orange, N. J.

Ask For Our Tire Instruction Book — It's Free

THE DIAMOND RUBBER CO. AKRON, OHIO

All supply houses sell

DYKES'

Never Kreep

Tire Shoes

This shoe is specially prepared with a cement coating, ready for instant use. Clings to inside of casing, same as if vulcanized.

John L. G. Dykes Co.
CHICAGO, U. S. A.

HAZARD OF NIGHT DRIVING

is reduced to the minimum only if you use reliable burners. The safety of both car and passengers depends then on this apparently unimportant little unit. "A chain is no stronger than its weakest link." No matter how good your lamps or gas supply, unless you have the best burner procurable. When your lamps are new from the factory, they are equipped with some style of Alco burner, for all important lamp makers use ALCO. Then why not insist on Alco again when replacing broken and worn out burners? All dealers sell—we do ***not*** sell to consumers direct.

Ask Dealer.

Alco DeLuxe Genuine German Lava. All gas sizes. Hexagon base (Pat. Dec. 24, 1907) permits easy installation with wrench or pliers.

AMERICAN LAVA COMPANY
CHATTANOOGA, TENN.

Always See the Road

Have a **Williams Shield** put on your car while stopping over night.

1910

A Touring Car Shield When Top is Up — A Roadster Shield When Top is Down

All in One — Fits All Cars — Nothing Like It

20th Century Motor Car Supply Co. ... Sole Mf'rs.

Garage Department one block from Oliver Hotel. Open day and night. Machine Shop and Supplies

121-125 South La Fayette Street, South Bend, Ind.

NEVER MIND THE PUNCTURE

THAT CAN BE REPAIRED WHEN YOU GET HOME

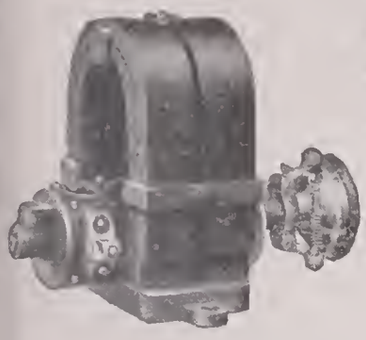
A Detroit Emergency Wheel

attached to the rim of the wheel carrying the disabled tire, will enable you to drive for miles

EASY TO PUT ON — **LIGHT WEIGHT** — **REASONABLE PRICE**

Can be attached in less than one minute without removing the punctured tire

Ask Your Dealer for the ***Detroit*** Emergency Wheel



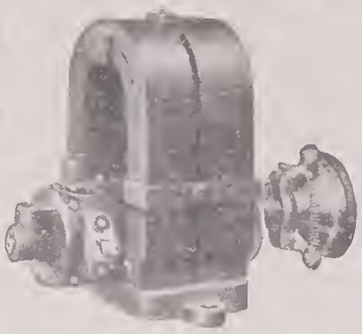
SPECIAL

Ford Magneto = = $25

For **Ford Models N. R. S.**

Maxwell Magneto $25

For **Maxwell Two-Cylinders**



Does the work as well as any $75 Magneto. Does it far better than any cheaper Magneto. No special coil required. Works with your present equipment. Brackets and everything necessary for installing furnished. The only Magneto backed by a 30-day free trial. Not an experiment. There are thousands in use. Write for catalog M. Which have you, Ford or Maxwell?

HERCULES ELECTRIC CO. 2128 to 2136 Northwestern Ave. **INDIANAPOLIS, INDIANA**

TIRES REPAIRED and VULCANIZED

Blowouts repaired. Sectional repairs made. Casings retreaded and recovered. Tube punctures vulcanized. Motor cycle tires repaired.—We give you a SQUARE DEAL and YOUR MONEY'S WORTH. We can guarantee our repairs, because we use the best materials, employ efficient workmen, and operate our well-equipped shop under up-to-date methods. **We Sell New Tires.** Our Aim is Our Motto: "Right and Reasonable."

THE MODEL VULCANIZING COMPANY

Phone: Calumet 531 1547 Michigan Avenue Chicago, Illinois

A DUCK BRAND LABEL

ON AUTOMOBILE WEARING APPAREL

Means the Best of Its Kind At Any Price

ALL LIVE DEALERS CARRY THE LINE

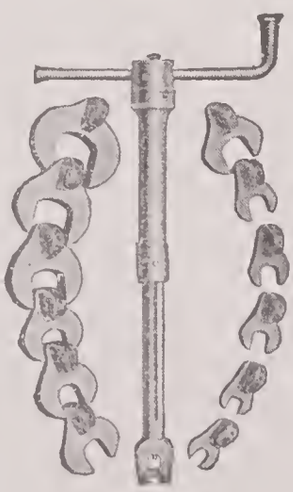
Protector Coats, Dusters, Rubber Shirts
Cravenettes, Leggins, Corduroy Clothing

THE DUCK BRAND CO. =:= CHICAGO

REX Adjustable Wrench Sets

Extension Ratchet handle; Interchangeable heads; adjustable instantly to any position. Fits any nut, bolt or cap screw, square or hexagon, on any machine. All parts drop forged from high carbon steel and **ABSOLUTELY WARRANTED** against breakage.

YOU NEED THIS WRENCH



REX WRENCH CO.
Hathaway Bldg, Summer St. BOSTON, MASS.

THE WORD Thermoid
MEANS THAT GOODS SO BRANDED
ARE ABSOLUTELY CORRECT

Thermoid
BRAKE BAND LINING

Thermoid
TIRES AND INNER TUBES
MANUFACTURED BY THE
Thermoid RUBBER COMPANY
TRENTON, N. J.

THE ROAD TO SATISFACTION

Equip your car with the GRAY AUTOCHIME. The Pioneer and Aristocrat of exhaust-blown signals. Some unscrupulous jobbers and dealers are offering imitations at prices from $4.00 up. The Autochime sells for $10.00. It's more than worth the difference.
See the name on the bell.

GRAY-HAWLEY MFG. CO. DETROIT, MICH.

Superior Motor Car and Motor Boat Accessories

DIXON'S GRAPHITE MOTOR LUBRICANTS

Supply lubrication for practically every part of the car; cylinders, transmissions, differentials, bearings, etc. The service these lubricants render is due to DIXON'S TICONDEROGA FLAKE GRAPHITE — the finest lubricating graphite the world produces. Use Dixon's and increase your car's efficiency.

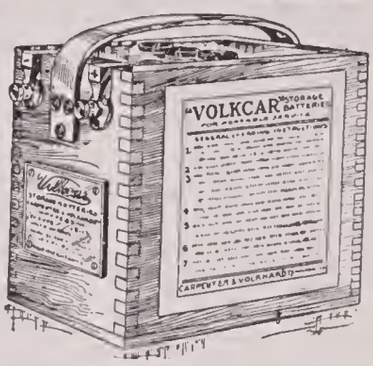
JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.

IN YOUR TRAVELS

YOU WILL NOT FIND A STORAGE BATTERY TO EQUAL THE

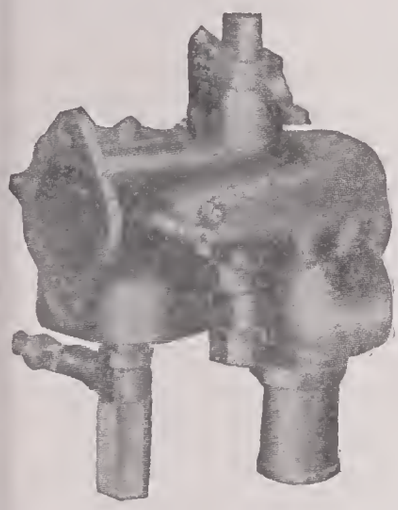
VOLKCAR

TRY ONE AT OUR EXPENSE



CARPENTER & VOLKHARAT

2443 MICHIGAN BOULEVARD, CHICAGO, ILLINIOS



THE PRINCIPLE OF THE

PETRE CARBURETTER

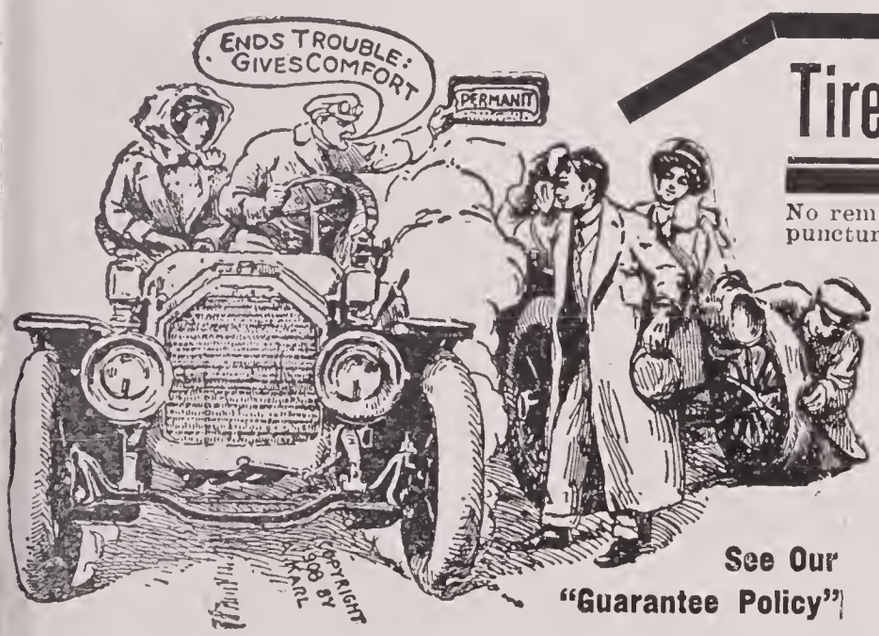
is exclusive. No other carburetter on the market has an automatically controlled needle valve which apportions the exact amount of gasoline for the given amount of air, making the **quality** of the mixture **constant,** whether running five or fifty miles per hour, up or down grade.

Notice that the needle valve and the air inlet are so affixed to the **same lever** that any movement of the air valve gives a correct and proportionate movement of the gasoline inlet, thus insuring a perfect mixture at all times, under all conditions.

The Petre Carburetter is guaranteed to

1. Start your Engine not later than the 3d quarter turn.
2. Give Greater Flexibility in Slow Running.
3. Greater Speed—By increasing **Quantity,** without changing the **Quality** of the mixture.
4. Greater Power in Hill Climbing—Same reason. (25 per cent. more power on topping a hill—and we can prove it.)
5. More Mileage—Less Consumption—Mixture is never too Rich.

THE PETRE CARBURETTER CO.
1839 Euclid Ave., Cleveland, O.



See Our "Guarantee Policy"

Tire Problem Solved!

No remedy has been found that would heal punctured tires without injuring the rubber, until "PERMANIT" was discovered and put in practical use.

"Permanit"

is imported from Europe and in use there for years and now in this country on the market for over a year and a half.

See what our customers say about it:

A prominent physician and ex-president of the Board of Trade writes:

"My Dear Sirs—I have used the auto car in the tires of which you put the material you call "PERMANIT," since November 21, 1907. It has not been necessary to pump up the tires since, although we have taken out of the tires several nails, tacks and pins. It appears to me to do the work."

We have many more similar to this and which are open to your investigation.

Refuse substitutes—let someone else try imitations **Why buy imitations when we can furnish you with the genuine?** Do not run any risk by trying something which has not been **fairly tested to stand all kinds of weather and roads, "PERMANIT"** has stood all these severe tests.

Sounds unbelievable, but it really does it. Besides, keeps the tires in good condition and increases their life.
Demonstrated before Board of Governors Harrisburg Motor Club with great success.
In your own interest write today and get full particulars and price and discounts to dealers, or send 53c for a sample carton which is sufficient for a bicycle tire.

THE ADOLF KARL CO.

245 Washington St. Newark, N. J.

SOLE AGENTS: Alabama and Georgia—H. Craig Chapman, Title Guarantee Building, Birmingham, Ala. District of Columbia and Maryland—Jacobson Bros. The Luttrell Co., 1028 Connecticut Ave., N. W., Washington, D. C. Illinois—Legnard Bros., Waukegan, Ill. Nebraska, Kansas and Colorado—Dr. J. W. Puckett, Geneva, Neb. New York—Permanit Co., of New York, Thoroughfare Building, 57th Street and Broadway, New York.

STA-RITE

Ignition Plugs Stay Right The Longest

TRADE MARK REG. U. S. PAT. OFFICE

No. 4A. Half-Inch Separable Double Porcelain
Price - $1.25

"VULCAN"

TYPE OF STA-RITE PORCELAIN IGNITION PLUGS

Metric, No. 6, Single, Adjustable Sparking Point.
Price - - $1.25

A. L. A. M., No. 8A, Separable, Outside Sparking Points. ⅞-inch—18th. Original Autocar size. Price - $1.25

Winton, No. 15 A.
Price - - $1.25
Extra Long.

PART LIST

Porcelain Tube and Cap with Bolt, Point, Packings, Nuts and Springs. 50 cts.

With our double porcelains, the contraction and expansion is uniform, and cap protects inner heated tube. Practically no breakage or leakage with "VULCAN" STA-RITES.

GUARANTEE:

We agree to repair, free of charge, perpetually, any Sta-Rite Plugs returned to our factory, at any time.

"VENUS"

TYPE OF STA-RITE MICA IGNITION PLUGS

A. L. A. M., No. 28A. Separable, Outside Sparking Points. ⅞-inch—18th. Original Autocar size. Price - $1.50

Metric, No. 48. French Metric. Separable, Outside Sparking Points. Copper Gasket Spun over shoulder.
Price - - $1.50

Thor, No. 51. Same as No. 48, except with special long bolt to fit Thor Motorcycle terminal. Price - $1.50

Hedstrom Plug for Indian Motorcycles. Price - $1.50

Mica Insulator, complete, threaded to fit Nos. 28A, 32A, 48, 51 and Hedstrom.
Price - - $1.25

All "Venus" Sta-Rite Mica Plugs are constructed with solid bolts from Bessemer steel rod, which do not stretch, and mica does not loosen. The inner India mica core is made with no shellac or other sticking substance. The perfect mica washers are compressed under great pressure, and machine turned to a finely glazed surface, which with ample air space is practically soot and waterproof, and cannot be broken in service.

No. 32 A.
Half-Inch Separable
Price - $1.50

THE R. E. HARDY COMPANY

INCORPORATED 1900

Factory, 201 37th Street, BROOKLYN, N. Y. Fisher Building, CHICAGO

Get a Stepney And Get There—Anywhere

No matter what kind of roads you have to travel, and no matter what kind of pneumatic tires you ride on, you are liable to have a puncture or blowout at any time. If you try to repair it on the road, it takes time and work--dirty work, too. If you continue your journey without attempting to mend the tire you will ruin it, and tires cost money.

Just Get a Stepney and you Won't Have to Do Either

you won't even soil your hands. Simply attach it to the rim of the injured tire. Anybody can do it. One use of the *Stepney* usually pays for the device, but it can be used interminably. **Ask for the *Stepney* anywhere, and *get* it, or write for Catalog "A"**

Spare Motor Wheel of America, Ltd.

GEO. S. MORROW, Sales Manager

236 Michigan Avenue, Chicago

The IMPERIAL

Non-Explosive Gasoline Tanks

One of the most important features in storing explosive liquids is the question of Safety

The IMPERIAL Non-explosive Tank is safe in **every** particular. It is scientifically impossible to explode any tank or can fitted with our non-explosive devices. Our tank is just as safe above ground as the other tanks that are buried.

Our over-ground system lasts ten times as long as the buried tanks, you get no water in your gasoline by your tank absorbing dampness from the ground or from sweating.

Write for our catalogue and full particulars.

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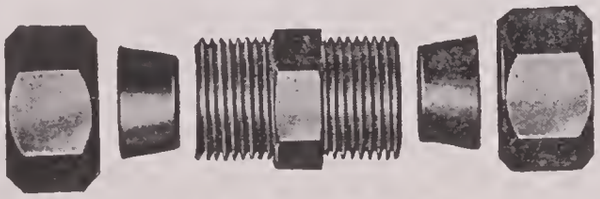

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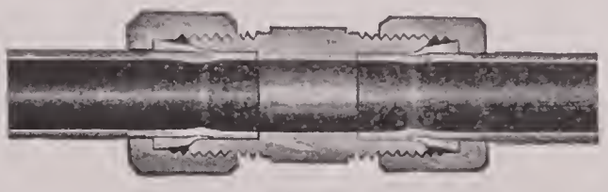

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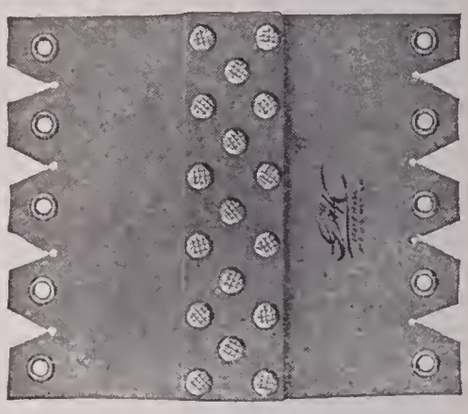

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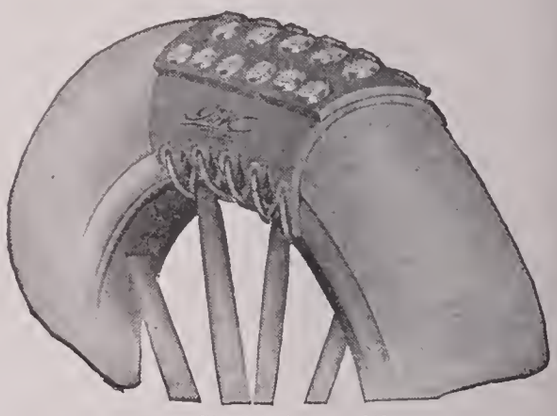

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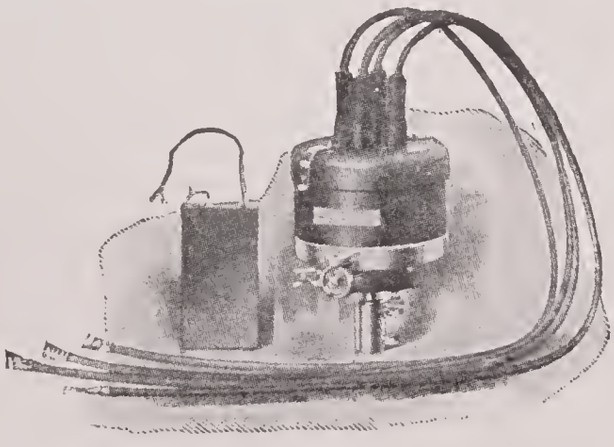

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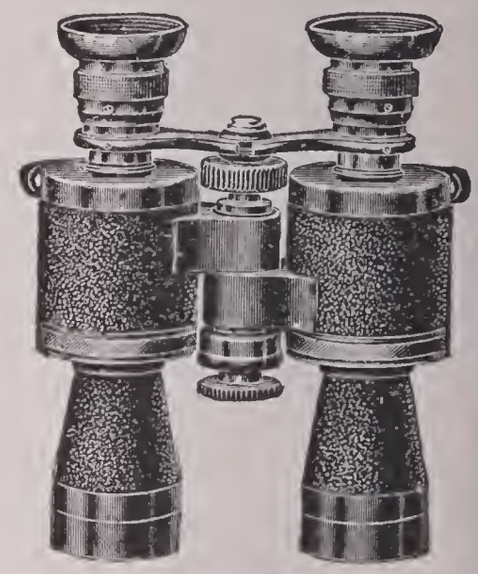

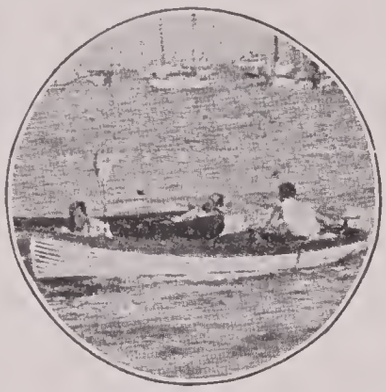

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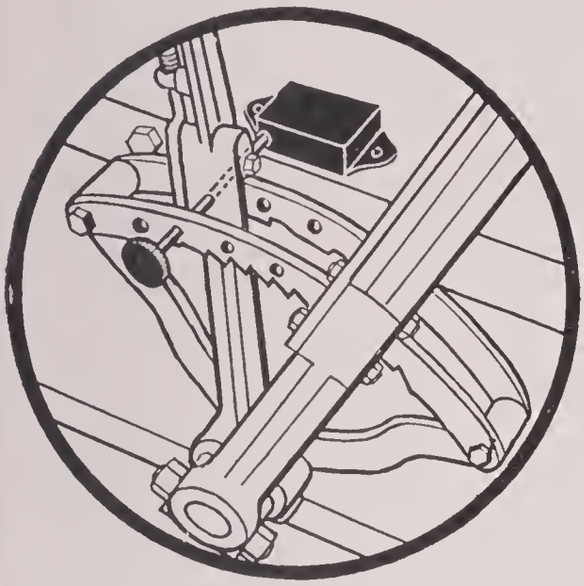

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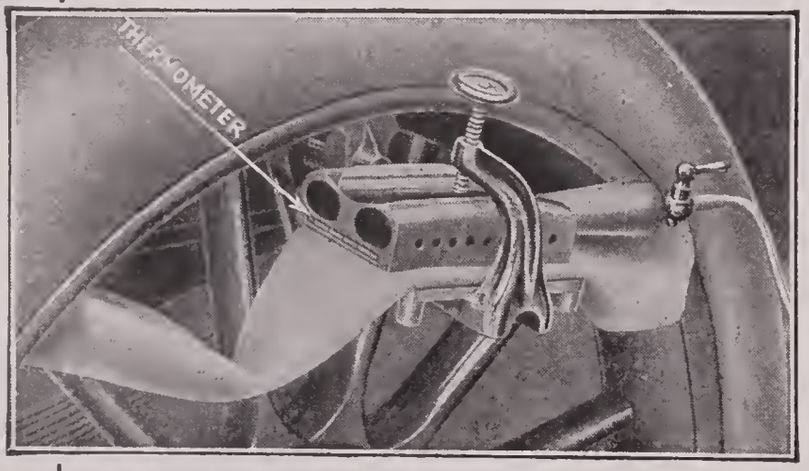

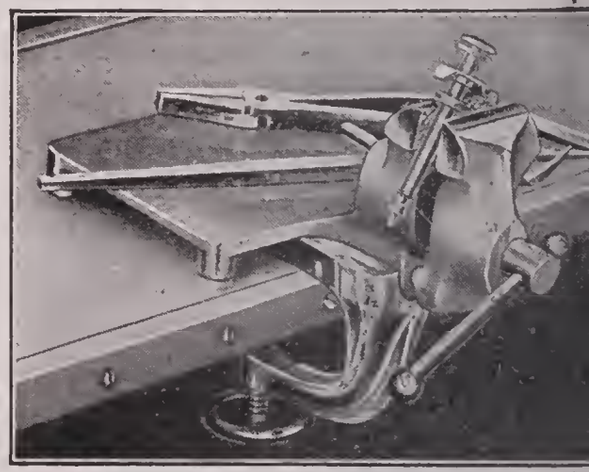

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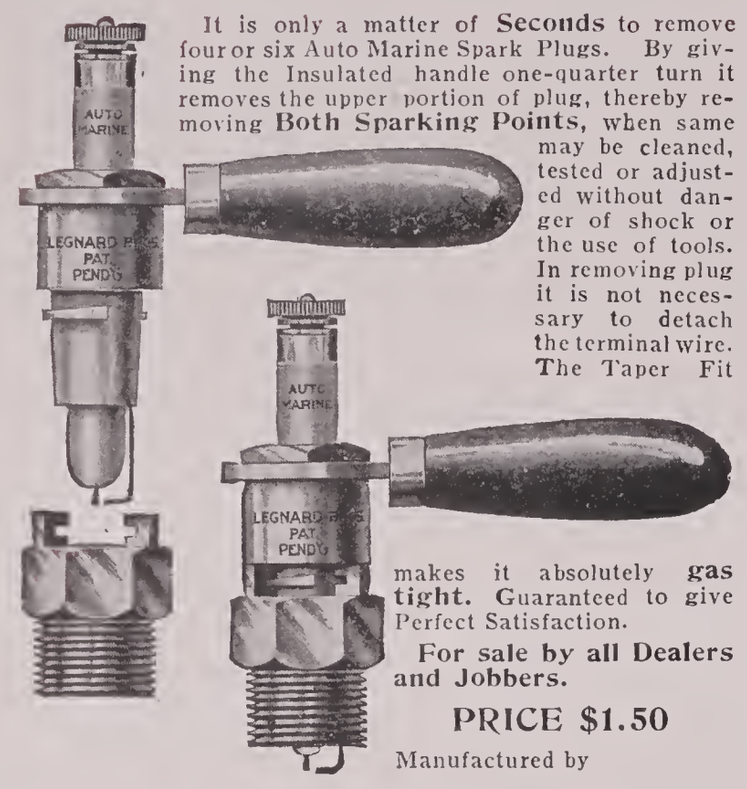

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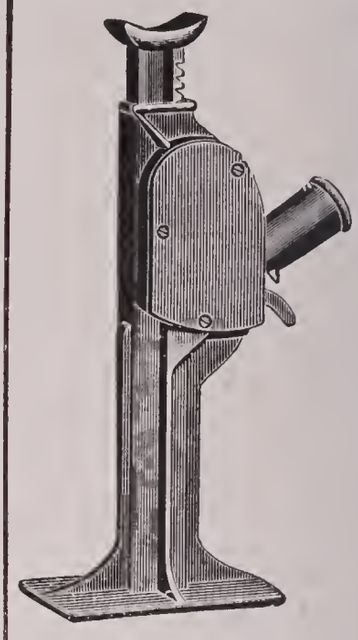

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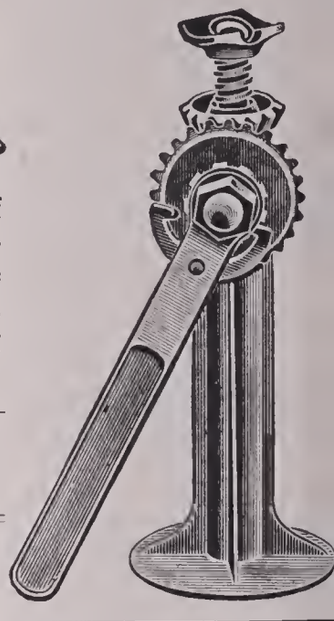

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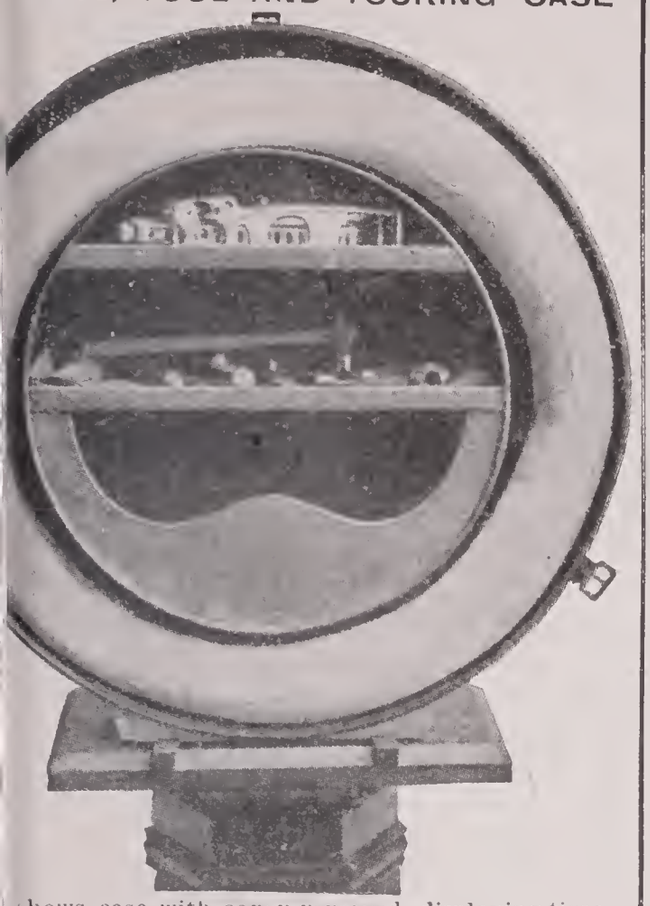

shows case with cover removed, displaying tires, ools, etc. The lower space within the circle holds ps, gloves inner tubes—or any articles used in tour- he tire space takes two shoes, the upper spaces a full ipment, thus doing away with all other appliances rying extras. The cost of the Dow Tire and Tool nuch less than that of the many pieces of equipment if this case is not used on your car. Patent pending.

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This Sireno Electric Horn is so flexible that by varying the pressure on the switch you can produce a gentle purr for the city streets, or a blast that can be heard over a mile away in the country.

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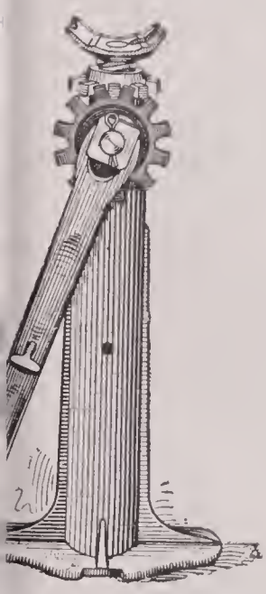
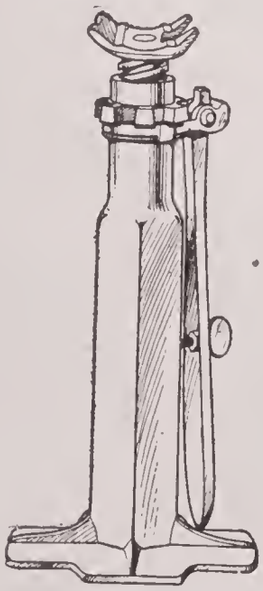
Patent Allowed.





7 Atlas Nos. 1, 2, 3. U. S. Jack No. 1.

ght over all. No. 1 10 inches. No. 2, 11 3-4 inches. No. 1, 5 lbs; No. 2, 6 lbs.

lever has an up and down motion. It is slotted at so as to move in or out, to engage from 1 to 4 teeth wheel.

head revolves on the end of the screw so that the n be worked at any angle or in cramped places. The s the truss brace, round or square axle.

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cannot have an accident with this jack.

screw is one inch in diameter.

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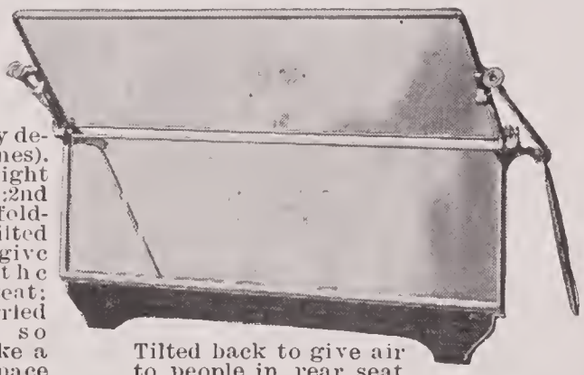
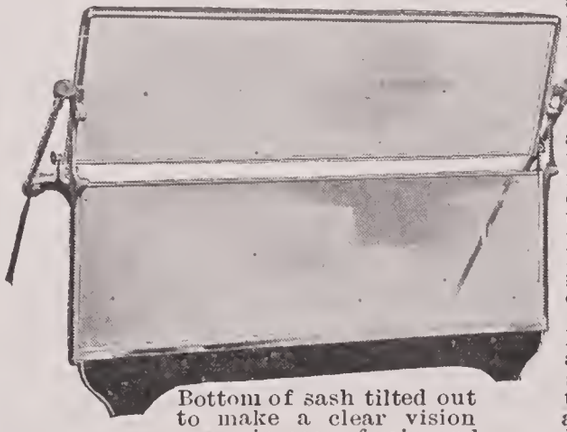
Col. Sprague's New Air Cushioned "Leader" Wind Shield.



Tilted back to give air to people in rear seat and still keep out storm.

It can be rigidly held in four positions (the only desirable ones). 1st. Upright or closed; 2nd Down or folded; 3d. Tilted back to give air to the back seat; 4th. Carried forward so as to make a clear space between the upper and lower sash, so you can see your way in rainy weather. Our air cushion locking device works easily and positively and holds the shield rigidly in each of the above positions. It cannot get out of order.



Bottom of sash tilted out to make a clear vision space in case of rain and still keep out the storm.

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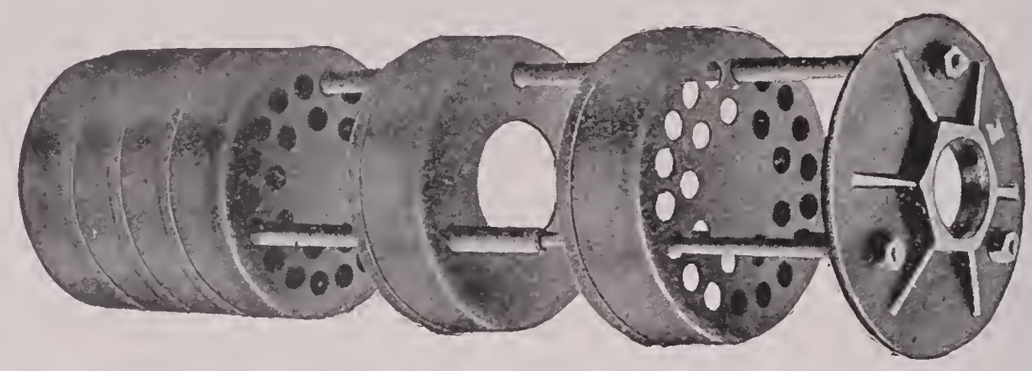

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We recommend a 15 or 16 section for a 40 to 50 horse-power automobile engine.

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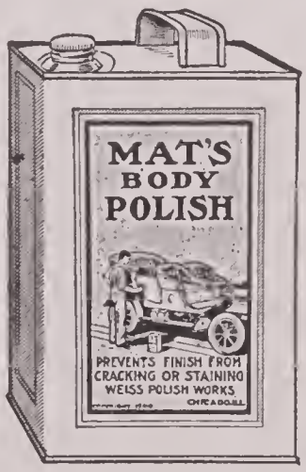

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Perfect Fitting.

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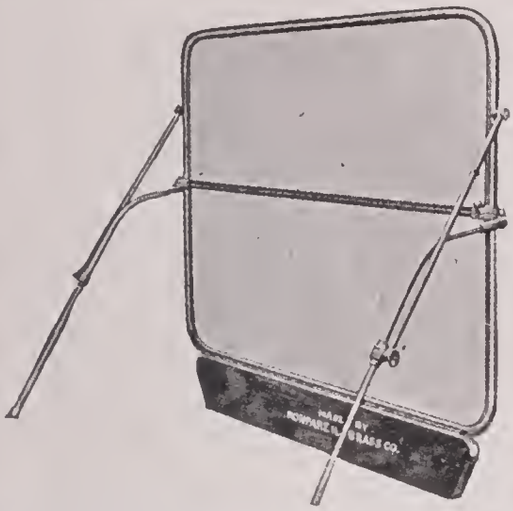

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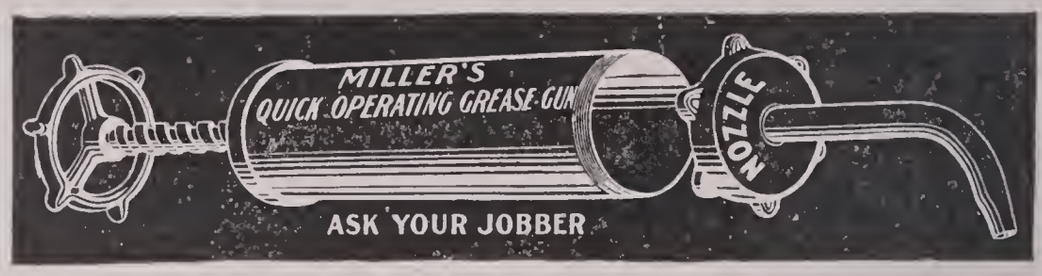

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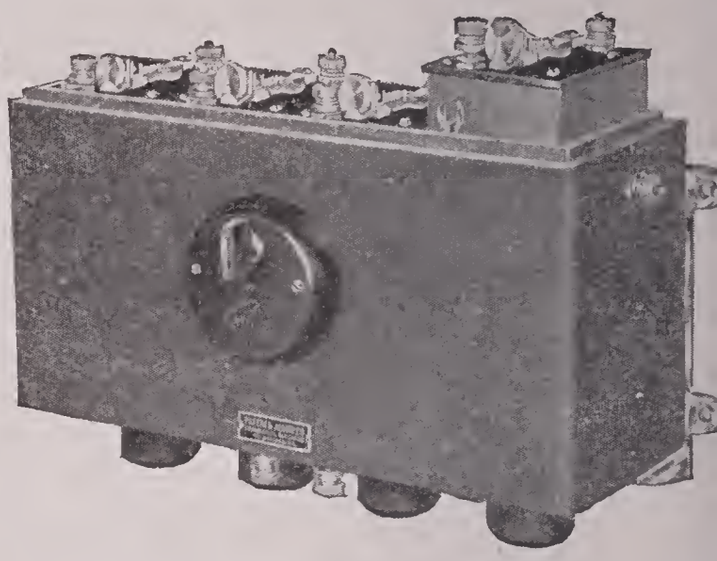
All windings guaranteed absolutely for five years. Constructed by our patented methods. The most advanced coil on the market. High grade workmanship. No "Freak" Features. Built along practical and scientific lines. The lowest priced strictly high-grade coil. Our pan-cake system of winding explains this.



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North Chicago. Illinois.

DISTRIBUTORS:

Beckley-Ralston Co., Chicago, Ill.
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WIRELESS AUTO-CONTACT BATTERY BOX

Uses ANY standard No. 6 Dry cell,
No wires, no binding posts,
All connection automatically made by closing the cover—4 or 8 cells.

Series or Multiple=series at your option.
"Shut the Lid = = = That's All!"

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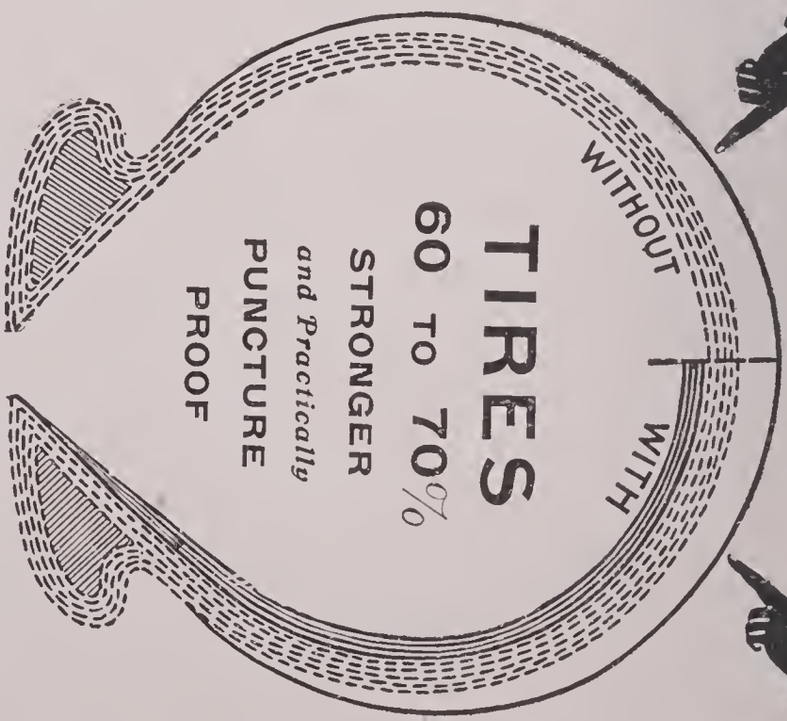
A. HALL BERRY, 97 Warren St., NEW YORK CITY

The

"INNERSHU"

Positively Makes



TIRES

60 TO 70%

STRONGER

and Practically

PUNCTURE

PROOF

MAKES TIRES LAST TWICE AS LONG

DOUBLES THE PLEASURE OF AUTOMOBILING

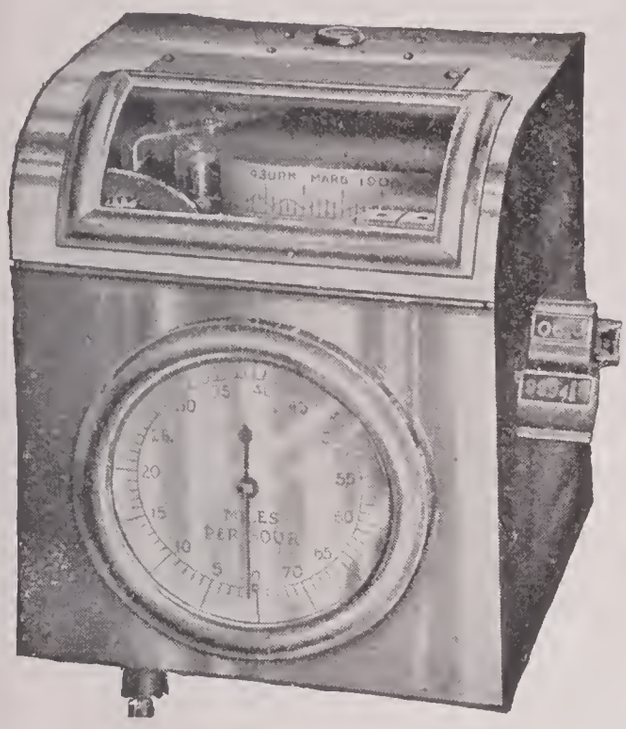
FOR SALE BY ALL DEALERS

INNER SHOE TIRE CO.

GRAND RAPIDS, MICHIGAN

Every owner of an Automobile needs a

Recometre



Because: It gives a plain and permanent record of his car; it tells how far the car goes; it tells how fast it goes; it tells when it stops and how long it stops.

Because: This record can be referred to at any time and is absolute proof of the speed of your car. It is better than a watchman in keeping your car from unauthorized use.

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Each Recometre Combines

A Record
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Six Distinct Devices in One

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EQUIP YOUR CARS WITH

HEALY RIMS

(DEMOUNTABLE TYPE)

Fits any tire and enables that tire to be changed in three minutes.

Spare tires carried inflated on extra rims at the side of the car.
Healy Rims fitted to any wheel in one day.

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HEALY LEATHER TIRE CO.

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The SQUEAK DEVILS' finish

Mexican Graphite

Automobile Lubricants

Reduce friction, smooth out kinks and stop squeaks. Put new life into old machines; give smoother, greater power to new ones.

Minimize Wear and Save Repairs

by Using Only

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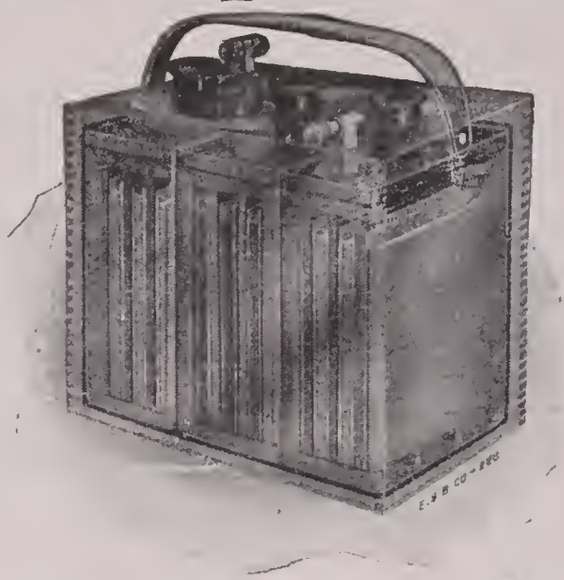
These lubricants carry just the correct proportion of pure soft Air Floated Lubricating Graphite---not "flake" graphite but **powdered** graphite of impalpable fineness, **absolutely free from grit** and of such a peculiarly adhesive nature as to cause it to "stay put" (something that "flake" graphite will not do) on that part of the bearing with which it comes in contact.

THE UNITED STATES GRAPHITE CO.
GENERAL OFFICES AND FACTORY, SAGINAW, MICHIGAN, U. S. A.

Branch Offices: New York, Philadelphia, Pittsburg, Chicago, Denver, Seattle

The "Exide" Sparking Battery

It Stands in a Class by Itself



It is made by a manufacturer having 20 years' experience in battery making

The great Steam and Electric Railways, Central Lighting and Power Stations, Telegraph, Telephone, Fire Alarm and Signal Companies use batteries made by this Company. This is a safe guide—Specify the

"Exide"

The Electric Storage Battery Co.

1888 PHILADELPHIA 1909

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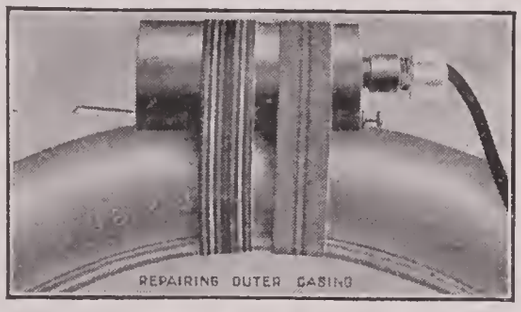
"Chloride Accumulator" "Tudor Accumulator" "Exide Accumulator"



PREPARE FOR EMERGENCIES ON THE ROAD

Buy a Buffalo Electric Vulcanizer and

REPAIR YOUR OWN TIRES

outer casing or inner tube—for a few cents at night for next day's touring. Don't go to repair shop.

SAVE TIME, SAVE MONEY, SAVE PATIENCE

Our introductory price will surprise you. Write today for "Tire Troubles."

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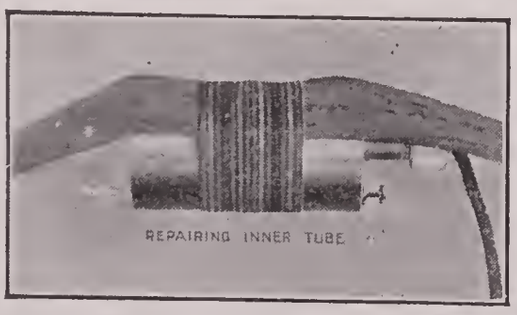

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Largest Manufacturers of

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Covers, Fabric Goods of Every Description

Write for our "1909" Catalogue and Price List

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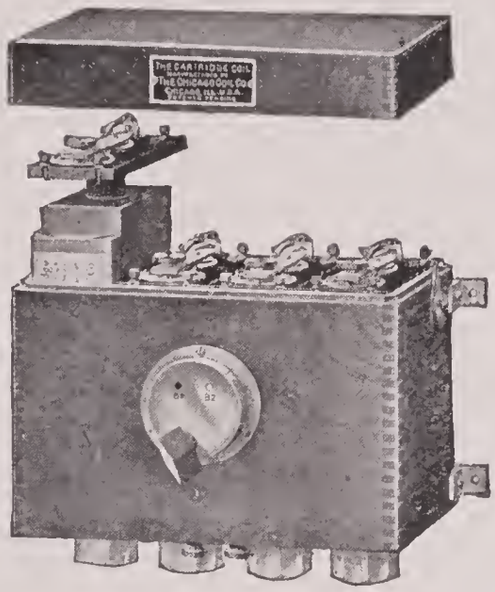
1461 Michigan Ave.

Cartridge Coils

This coil is so made that you can replace any part in a few seconds' time.

No units to throw away. Economical on current. Has the switch with a memory which saves platinum wear and is in every way a superior article.



1 Cylinder, $10.00
2 Cylinders, 20.00
3 Cylinders, 30.00
4 Cylinders, 40.00
6 Cylinders, 60.00

Parts are standard and interchangeable

GUARANTEED FOR ONE YEAR

Cartridge Coil Company, LAFAYETTE, INDIANA

Motor Car Supply Co. Chicago — Chicago Vulcanizing Co., Chicago
Standard Auto Supply Co., Chicago

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Adds to Your Touring Comforts

We make tires to fit any rim and maintain Branches in seventeen principal cities in the United States

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REMOVABLE RIMS

Phone, Wire, Write or Call at

THE FISK RUBBER COMPANY

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IS A TRIPLE FILTERED, HIGHLY REFINED PETROLEUM LUBRICANT

Absolutely Free from Carbon, Dirt, Grit, Gum, Acid, Etc.

GUARANTEED
TO GIVE
PERFECT LUBRICATION
ON ANY
GASOLINE ENGINE

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PUMPELLY BATTERIES

ARE THE BEST

6 volt, 60 ampere hours, guaranteed to run car over 2,000 miles on one charge if spark coil is properly adjusted.

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SPARKING, LIGHTING AND PROPELLING THE AUTOMOBILE

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WE USE NO WOODEN SEPARATORS

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Wire or write when in a hurry.

We will give you what you want when you want it.

Largest Auto Supply House in the World

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G. S. CHAPIN, M. D., President

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In Actual Brake Tests this Plug has shown Greater Horse Power than any other

John B. Anderson, M. D.

01809 Division Street, Spokane, Wash.
May 27, 1909.

The National Steel Products Co.,
Cleveland, Ohio.

Gentlemen:

Enclosed please find my check in the sum of Eight Dollars for which send me four spark plugs. I have tried plugs of several different makes. Yours is the best ever. I have a set that I have used in my Ford Model N Car **for a year.** Yesterday I went for a seventy mile run, and as one of my plugs is in poor condition, the mica being broken, I purchased a new plug said to be soot proof and to spark in oil and water. I made the run of thirty-five miles with the engine being erratic after the first few miles, and as I was loosing power on the hills I examined the plugs, found the New Plug as black as soot itself, and the other three plugs all with a sparking surface. I brushed them off with a stiff brush, and put in my old dilapidated plug and made the other thirty-five miles without mishap. **I do not give a D— whether a plug will spark in oil and water. I want one that will spark in the cylinder, and permit me to say that your plug will do it.** I think that you will make the other fellows sit up and take notice. I tell you this now, as post mortem roses have their beauty lost to the fellow most interested.

Yours very truly,

JNO. B. ANDERSON.

We are supplying a number of the largest automobile manufacturers, who have previously contracted for other plugs, with our Spiral Core, Blue Blaze and Rapid Fire Plugs, for 1909 use, they having discontinued other plugs because of better results from ours.

Horse Power

Graphlio

A powdered Flake Graphite absolutely free from grit, that will not clog up oil feed pipes or lubricators

Reduces friction, increases available horse power and assures cool bearings when used in lubricants.

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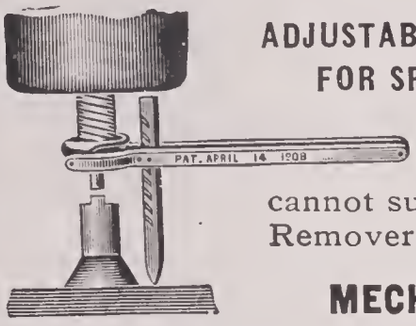
TRIUMPH ADJUSTABLE VALVE REMOVER

Does the work with no side strain or bending of valve stem.



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For sale by SUPPLY DEALERS throughout the United States, if your dealer cannot supply you send us P. O. order for $1.00 and the Remover will be sent to you, delivery charges prepaid

MECHANICAL AND ELECTRICAL MFG. CO.

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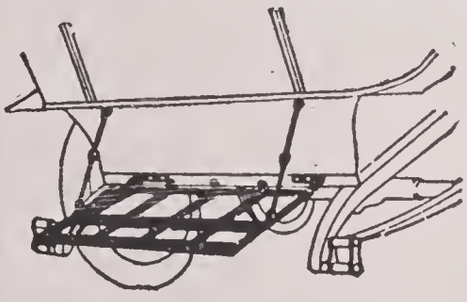
DOUBLE-FOLD AUTO TRUNK RACK



Made for service and in sizes to fit any car. Is made of light cold rolled steel, black enamel baked on. Will outlast and give better satisfaction than any Trunk Rack on the market today, in fact will outlast the car. The racks are made adjustable wherever possible and can be put on any car. They stand for efficiency, durability and reliability. If you want the best, most convenient and most substantial Trunk Rack on the market at a fair price write us. **Money refunded if not as represented.** Orders filled promptly.

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Phone: Calumet 1685 **1720 Michigan Ave.** **Chicago, Illinois**

The *RELIANCE* Igniter Storage Battery (Celluloid Jars)
RELIABLE Igniter Storage Battery (Hard Rubber Jars)

Also Motor Cycle Type in Celluloid or Rubber

WE MAKE 44 STANDARD STYLES AND SIZES

Our 18th year in the manufacture of Storage Batteries and accessories of every kind. Write for catalogs of Dome Lamps, Hydrometers and other Specialties

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237 and 239 East 27th Street :: :: NEW YORK

THE GEISZLER

Non-Sulphating

Storage Batteries

Size 66, 6 Volts, 60 Amp. Hrs.

PRICE
$15.00

Perfect satisfaction **Guaranteed** or money refunded any time within one year of date of purchase.

Superior to any other Storage Battery regardless of price.

THE GEISZLER MIDGET

Non-Sulphating

Storage Battery

2 Volts, 30 Amp. Hrs.

PRICE
$2.50 Each

Give more power and speed than dry cells, will hold their charge for months when not in use, can be recharged for 15 cents each, and will outlast three sets of dry cells on each recharge.

Same size as No. 6 Dry Cell

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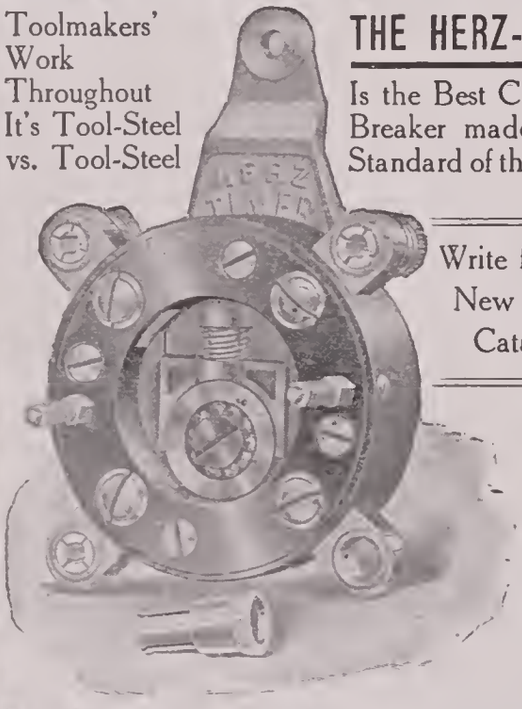
PERFECT TIMING!

Toolmakers' Work Throughout It's Tool-Steel vs. Tool-Steel

THE HERZ-TIMER

Is the Best Circuit-Breaker made—The Standard of the World



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Double Ball Bearings — Snap Connections
Large Roller on Balls — It's perfection

THE WONDERFUL NEW CONTACT

NEVER BURNS OFF
NEVER WEARS OFF

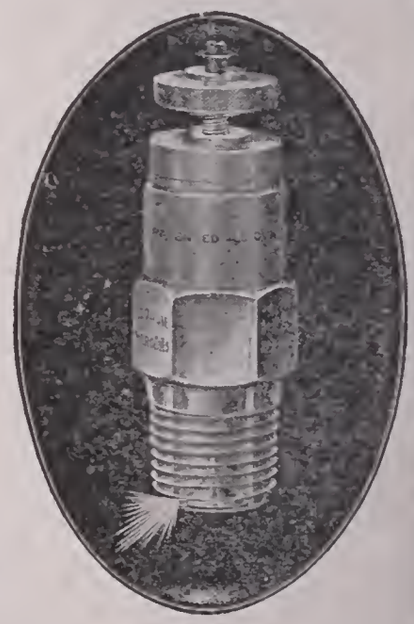
IT NEVER FAILS!

WE GUARANTEE IT

The HERZ-PLUG

"BOUGIE MERCEDES"

IS THE BEST AND MOST RELIABLE SPARK PLUG EVER MADE—The double-stone insulation alone lifts it sky-high above the best porcelain plug. Stone will **NEVER** crack; porcelain does. **The Herz-Plug** is proof against oil or soot; self-cleaning. Forms part of your motor, same as the pistons. Needs never to be taken out.



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The Battery of Quality

No. 406. Type "J"
$2\frac{1}{2}$ x 6 inches 25c
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3 x 7 inches 50c
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$3\frac{1}{2}$ x 8 inches 60c

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Size to fit the vest pocket. Without doubt the smallest, neatest, most accurate and most reliable pocket current meter.

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0-30 Amperes
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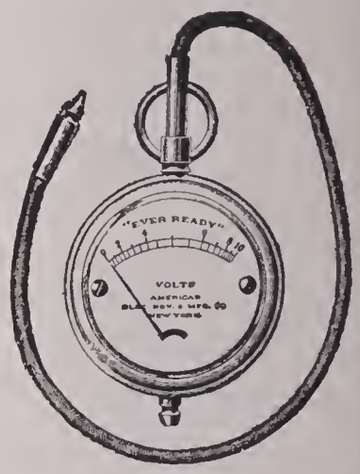
Each instrument in a chamois leather case.



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"Eveready" Bull Dog Battery Connectors

They never let go.

Eliminate all ignition troubles caused by loose battery connections.

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of worthless infringements.

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REMOVES TARNISH INSTANTLY
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It Is There With the Shine in Quick Time

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Was used on FORD CAR No. 2, winner of the New York-Seattle race, over entire route.

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FOR DIFFERENTIALS, AXLES, BALL AND ROLLER BEARINGS, UNIVERSAL JOINTS, ETC.

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SEMI-FLUID OILS OF GREAT ENDURANCE—OF CUSHIONING PROPERTIES—FOR THE LUBRICATION OF TRANSMISSIONS

If your dealer cannot supply you, address

STANDARD OIL COMPANY

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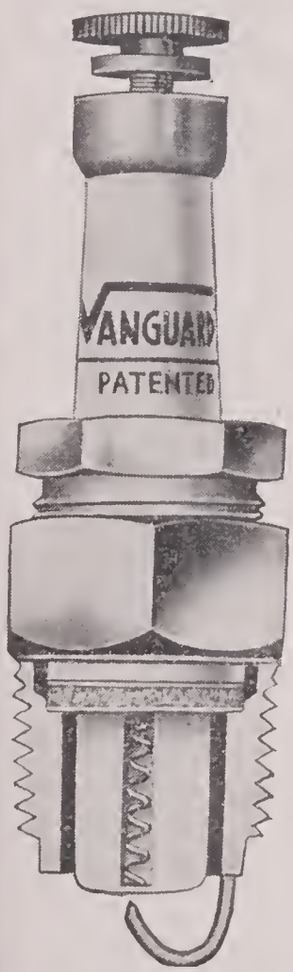

come to all who do not use the kind of Spark Plugs that will work under all engine conditions, regardless of dirt and moisture. In

VANGUARD SPARK PLUGS

the central firing pin or point has been eliminated and the spark is forced to a connection with spiral platinum wire encased in porcelain through a microscopic aperture that does not permit even air to enter.

Look for the Trade Mark.

TRADE MARK

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REGISTERED

It means perfect goods and fair prices.

The absence of firing pin or point causes greater resistance with a hotter spark that means more power, and however sooty the plug may become, a clean circular spot is found where closing of circuit is forced. Let the VANGUARD Spark Plug demonstrate its efficiency.

Standard ½-inch and metric thread $1.
A. L. A. M. $1.25. Sent postpaid on receipt of price.

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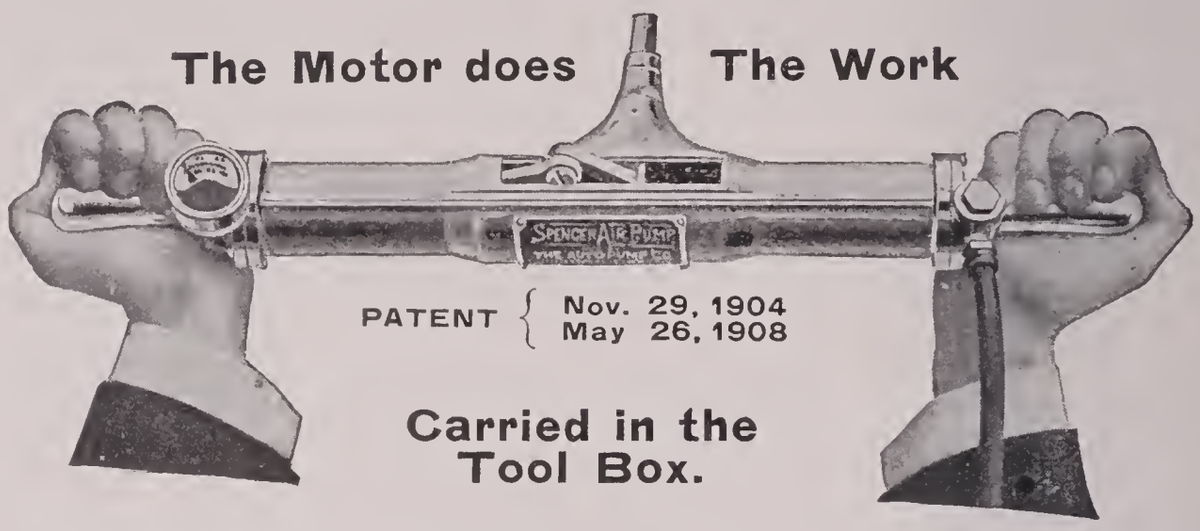
JOLIET, ILLINOIS
Manufacturers of the famous Vanguard Wind Shields

OUR LINE FOR 1909-1910

The Spencer Power Air Pumps

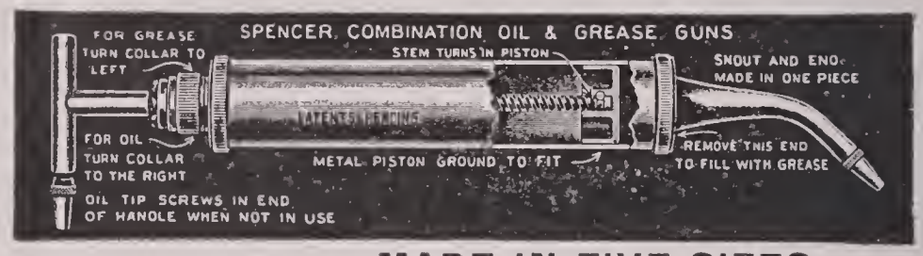
The Motor does The Work



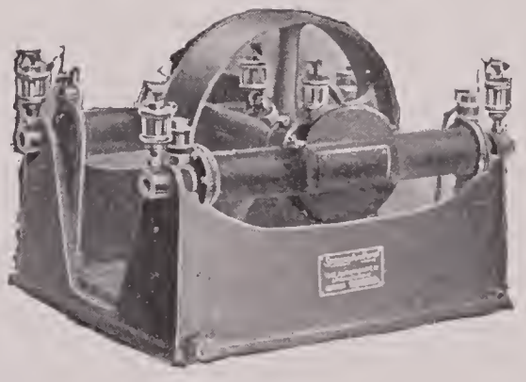
PATENT { Nov. 29, 1904 / May 26, 1908

Carried in the Tool Box.

This Pump is built like a high-grade engine, cylinder, pistons and piston rings, ground to the thousandth part of an inch. There are no leather packings to dry or wear out. It will inflate your tire in two minutes, saving time and labor. It will increase the life of your tires by keeping them properly inflated.



MADE IN FIVE SIZES.



Our four cylinder **Garage Pump** is made up of drop forged pistons and cranks and equipped with piston rings.

It will give a high pressure and large volume, and will do the work of a pump costing twice the money.

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SPRINGVILLE, N. Y.

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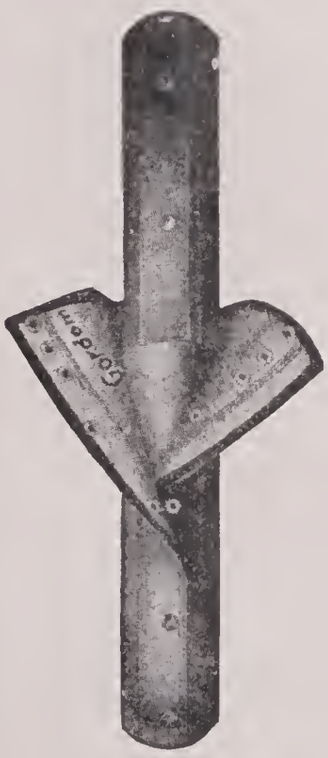
Fits Neat
and Smooth

Keeps Top Clean

GORDON NEW ENGLAND TIRE COVER



Buttons on the tread of the tire—don't scratch polished surface : : :

CATALOGUE FREE

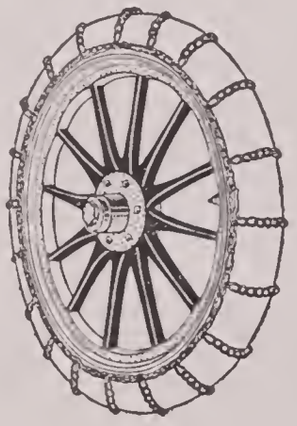
The Vehicle Apron & Hood Co.

COLUMBUS, OHIO

IT MAY RAIN TO-DAY

or to-morrow or next day. Then you'll need Weed Chain Tire Grips. And you'll need them badly. There is only one way that you can be positively sure that your car is not going to skid off the road, and that is — by using

Weed Chain Tire Grips



Weed Chains are easily attached or removed. They are in use only when you need them. They occupy but little space in the tool box. The new Weed cross chains are BRASS PLATED — see that you get them.

Weed Chain Department
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GILBERT TIRE CASES

Need no recommend—ask the man who uses one

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GREEN OIL SOAP

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Does not injure the varnish, paint or leather. Quickly removes grease, stains and dirt from autos, leather, clothing, hands, etc., without the least injury. Does not necessitate an additional application of a finishing polish to restore the lustre to the auto body. This soap has been tested on a highly polished wood panel 1350 times and the polish and finish is still perfect.

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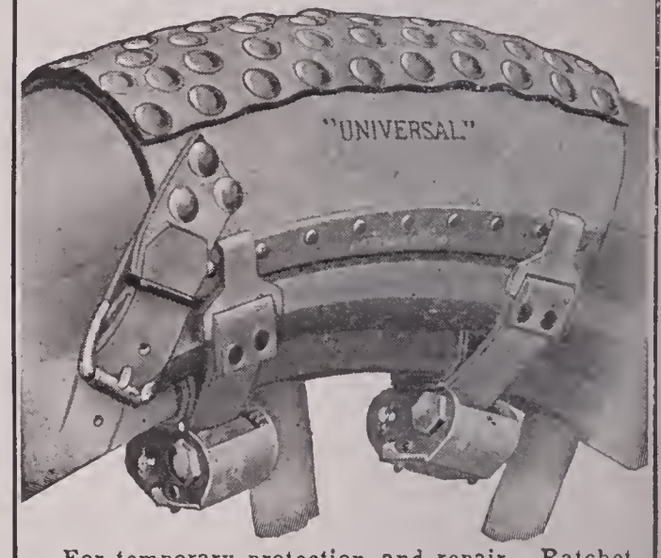

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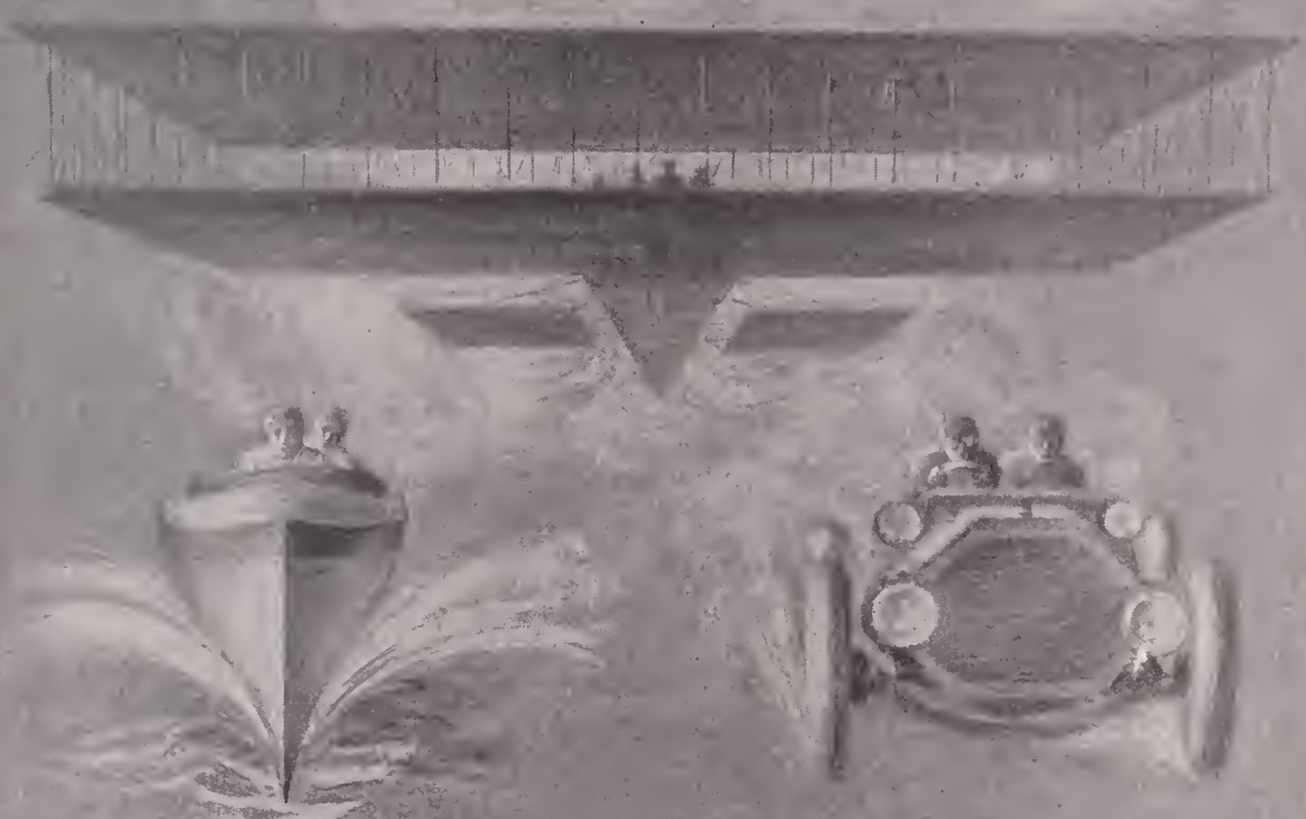

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